MTR-8318

Vol. II



USER'S MANUAL FOR THE AFSATCOM
TERMINAL UPGRADES LIFE CYCLE COST MODEL

APPENDIX D
PREPROCESSOR FORTRAN SOURCE CODE

APPENDIX E LCC PROGRAM FORTRAN SOURCE CODE

APPENDIX F
RLA PROGRAM FORTRAN SOURCE CODE

By W. H. BROWNING and D. B. PETERS

Prepared for

DEPUTY FOR COMMUNICATIONS AND INFORMATION SYSTEMS
ELECTRONIC SYSTEMS DIVISION
AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE
Hanscom Air Force Base, Massachusetts





Project No. 6340
Prepared by

THE MITRE CORPORATION
Bedford, Massachusetts
Contract No. F19628-81-C-0001

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SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
ESD-TR-81-146 ADA/10 964	
4. TITLE (and Sublitio) USER'S MANUAL FOR THE AFSATCOM TERMINAL UPGRADES LIFE CYCLE COST MODEL, APPENDIX D, PREPROCESSOR FORTRAN SOURCE CODE: APPENDIX E, LCC PROGRAM FORTRAN	
SOURCE CODE: APPENDIX F, RLA PROGRAM FORTRAN SOURCE CODE	6. PERFORMING ORG. REPORT NUMBER MTR-8318, Vol. II
W. H. BROWNING D. B. PETERS	F19628-81-C-0001
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
The MITRE Corporation, P.O. Box 208, Bedford, MA 01730	6340
11. CONTROLLING OFFICE NAME AND ADDRESS Deputy for Communications and Information Systems	12. REPORT DATE OCTOBER 1981
Electronic Systems Division, AFSC Hanscom AFB, MA 01731	13. NUMBER OF PAGES 340
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)	15. SECURITY CLASS. (of this report)
	UNCLASSIFIED
	15a. DECLASSIFICATION DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)	
Approved for public release; distribution unlimited	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, II different fro	om Report)
18. SUPPLEMENTARY NOTES	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number, LIFE CYCLE COST FORTRAN CODE)
ATU PROGRAM	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)	
This volume of the User's Manual for the AFSATCOM Cost Model contains listings of the FORTRAN source comprising the Model. These three programs are the Program, and the RLA Program.	code for the three programs

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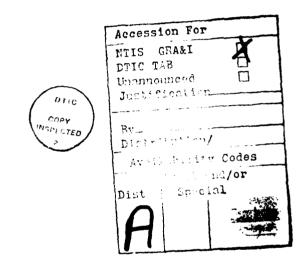
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ABSTRACT

This volume of the User's Manual for the AFSATCOM Terminal Upgrades Life Cycle Cost Model contains listings of the FORTRAN source code for the three programs comprising the Model. These three programs are the Preprocessor, the LCC Program, and the RLA Program.



ACKNOWLEDGMENTS

This report has been prepared by The MITRE Corporation under Project No. 6340. The contract is sponsored by the Electronic Systems Division, Air Force Systems Command, Hanscom Air Force Base, Massachusetts.

The authors wish to express their appreciation to the many people whose efforts contributed to the preparation of the AFSATCOM Terminal Upgrades Life Cycle Cost Model.

The Model is comprised of three programs: the Preprocessor, the LCC Program, and the RLA Program. The LCC Program, the heart of the Model, is actually a fourth generation AUTOLCC model. The original version was designed and implemented by Dick Moynihan and Joyce Calabro. The second version was modified by Josh Seeger and C. C. Cho and implemented by Mary Jean Hayes. The third version was designed by Jane Cox and Dave Peters and coded by Joyce Calabro, Sharon Rawis, and Lucille Record.

The fourth and current version of the LCC Program was adapted from the previous versions by the authors and implemented by Virginia Day and Mary Jean Hayes. The RLA Program was designed and implemented by C. C. Cho and Mary Jean Hayes.

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APPENDIX D

PREPROCESSOR FORTRAN SOURCE CODE

С	ילר ה'כ ה'כ ה'כ	este sie ste ste ste ste ste ste ste ste ste st	-25.26
С	2,5	ATU LCC MODEL PREPROCESSOR	*
С	*		*
С	**	THIS PREPROCESSOR PERFORMS TWO BASIC FUNCTIONS:	*
С	*		*
С	* 1)	CREATING AN ITEM-IN-PLATFORM MATRIX IN UNIT 21 GIVEN:	*
С	÷-	LRU-IN-PLATFORM MATRIX (UNIT 25) AND	7.
	*		2,6
С	* 2)	CHECKING UNITS 18,19,20,22,25 AND 26 FOR INPUT FILE	7.5
С	k	FORMAT ERRORS. IN PARTICULAR, THE FOLLOWING ERROR	بازد
С	7.5	CONDITIONS ARE CHECKED FOR:	*
С	*		*
С	*	- MULTIPLE CARDS FOR AN ITEM NUMBER	*
С	7.0	- MORE ITEMS IN A FILE THAN IN THE INITIAL FILE	77
С	*	- ITEMS NOT APPEARING IN THE INITIAL ITEM FILE BUT	4
С	*	FOUND IN OTHER FILES	*
С	r'e	- FEWER ITEMS IN A FILE THAN IN THE INITIAL FILE	***
\sim		- ITEMS NOT APPEARING IN A FILE BUT NOT FOUND IN THE	*
С	% %	INITIAL FILE	7,10
С	37	- SRU ITEMS IN LRU ITEM LISTS	**
С	**	- LRU ITEMS IN SRU ITEM LISTS	:!:
С	**	- ITEM NUMBERS OUT OF SEQUENCE IN A FILE	;;;
C		- ITEM INDICIES OUT OF RANGE	2,4
C	**	- MORE THAN THE MAXIMUM NUMBER OF ITEMS IN THE INITIAL	
C	3,5	FILE	*
C	*	- MORE THAN THE MAXIMUM NUMBER OF SRUS IN AN LRU IN	*
С	*	THE LRU/SRU CROSS REFERENCE FILE (UNIT 12)	5/5
С	*,	- END OF FILE FOUND BEFORE THE END OF THE SRU LIST	76
С	*	FOR AN LRU IN THE LRU/SRU CROSS REFERENCE FILE	2,6
С	*	- MISSING END-OF-FILE MARKER IN A FILE	**
С	3'6		**
~	المعادما وماوما	ته دا د دا د دا د دا د با د دا د با د دا د	واورادوا

COMMON ITEM(150,2), NERR, YET(150), LASTI, MAXI LOGICAL ITEM, YET, WROTE REAL NITEM(150,5), INPVEC(28), XCOL1, QPA(30) INTEGER INITEM(5) INTEGER I, IL, ILOOP, NDS, K, NP, LRU, NUMITM, NUMLRU, ISRU(30) INTEGER NERR, LASTI, MAXI, MAXNDS, MAXNP, NRM, IRM, NRMM1, IPAGE DATA STAR/1H*/, BLANK/1H/

```
FORMAT(A1, 13, 39X, 12)
2
                 FORMAT(A1, 13, 12F4.2)
3
                 FORMAT(A1)
                 FORMAT(A1, 13, 12, 14(13, F2.0))
5
                 FORMAT(A1, 13)
                 FORMAT(/24H PROCESSING COMPLETED. ,13,17H ERRORS DETECTED.)
                 FORMAT(/49H OUTPUT FILE (ITEMS IN PLATFORMS) NOT WRITTEN DUE/
               +17X,10HTO ERRORS./)
                 FORMAT(/53H OUTPUT FILE (ITEMS IN PLATFORMS) WRITTEN TO UNIT 21./)
8
                 FORMAT(/1H ,13,10H LRUS AND ,13,29H SRUS READ FROM INITIAL FILE.)
9
10
                 FORMAT (/41H ATU LCC PREPROCESSOR -- EXECUTION BEGINS)
11
                 FORMAT(A1, I3, 12I4)
12
                 FORMAT(1H ,15,12F7.2)
13
                 \pm 44 {
m X} , 44 {
m H}^2 is the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description o
               +44X,1H*,42X,1H*/
                                                                  ATU LIFE CYCLE COST MODEL
                                                                                                                                                                  #/
               +44X,44H#
                                                                                                                                                                  #/
                                                                                   PREPROCESSOR
               +44X,44H#
               +44X,1H+,42X,1H+/
               +44\mathrm{X} , 44\mathrm{H} set of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the followi
                 FORMAT(1H1,6X,44H PREPROCESSOR INPUT FILE: DATA FILE 11B -- ,
14
               +35HLRU ITEM CONFIGURATION ON PLATFORMS///)
                 FORMAT(1H1,4X,45H FREPROCESSOR OUTPUT FILE: DATA FILE 11A -- ,
15
               +31HITEM CONFIGURATION ON PLATFORMS///)
16
                 FORMAT(A1, 13, 12, 12)
17
                 FORMAT(A1.5X,14(13,F2.0))
                 FORMAT(1H1/30X,70HPREPROCESSOR INPUT FILE: DATA FILE 8B -- LRU/SR
 18
               +U CROSS REFERENCE DATA)
                 FORMAT(59X,11H(CONTINUED)//)
19
                                                                                                              SRU ,3X,12HSRU
                                                                                                                                                                     SRU ,3X,12HSRU
 20
                 FORMAT(//9X,4H#SRU,4X,12HSRU
                             SRU ,3X,12HSRU
                                                                                 SRU ,3X,12HSRU
                                                                                                                                          SRU ,3X,12HSRU
                                                          SRU /1X,3HLRU,5X,5HTYPES,3X,12HINDEX QUAN-,3X,12HI
               +,3X,12HSRU
               +NDEX QUAN-,3X,12HINDEX QUAN-,3X,12HINDEX QUAN-,3X,12HINDEX QUA
               +N-,3X,12HINDEX QUAN-,3X,12HINDEX QUAN-/1X,5HINDEX,3X,6HI? LRU,2X
                                                  TITY ,3X,12HNO.
                                                                                                       T1TY ,3X,12HNO.
                                                                                                                                                               TITY ,3X,12HNO.
               +,12HNO.
                                                                                                                                     TITY ,3X,11HNO.
               + TITY ,3X,12HNO.
                                                                              TITY ,3X,12HNO.
                                                                                                                                                                                            TITY/1X
               +,4H(IL),4X,5H(NDS),3X,12H(ISRU) (QPA),3X,12H(ISRU) (QPA),3X,12H(IS
               +RU) (QPA),3X,12H(ISRU) (QPA),3X,12H(ISRU) (QPA),3X,12H(ISRU) (QPA)
               +,3X,12H(ISRU) (QPA)//)
 21
                 FORMAT(2X, 13, 5X, 13, 5X, 13, 3X, F4.0, 5X, 13, 3X, F4.0, 5X, 13, 3X, F4.0, 5X, 13
               +,3X,F4.0,5X,I3,3X,F4.0,5X,I3,3X,F4.0,5X,I3,3X,F4.0/18X,I3,3X,F4.0,
               +5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F
               +4.0,5X,13,3X,F4.0
                 FORMAT(18X, I3, 3X, F4.0, 5X, I3, 3X, F4.0, 5X, I3, 3X, F4.0, 5X, I3
 22
               +,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0/18X,13,3X,F4.0,
               +5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F
               +4.0,5X,13,3X,F4.0
```

- FORMAT(7H ITEM, 16X, 40HAVERAGE NUMBER OF LRU ITEMS INSTALLED ON, +14H PLATFORM TYPE/,8H INDEX, 15X, 50(1H-)/,7H (I), I4, 11I7//)
- FORMAT(7H ITEM, 16X, 36HAVERAGE NUMBER OF ITEMS INSTALLED ON, +14H PLATFORM TYPE/,8H INDEX, 15X, 50(1H-)/,7H (I), I4, 11I7//)
- FORMAT(/45H ********* THE REMAINDER OF FILE 8B NOT READ)
- C MAXI HOLDS THE MAXIMUM NUMBER AND INDEX OF ITEMS

MAXI=150

C MAXNDS HOLDS THE MAXIMUM NUMBER OF SRUS IN AN LRU

MAXNDS=30

C MAXNP HOLDS THE MAXIMUM NUMBER OF PLATFORM TYPES

MAXNP=5

NERR=0 NUMLRU=0 NUMITM=0 WROTE=.FALSE. DO 30 NP=1,MAXNP

- C INITEM WILL HOLD THE ITEM-IN-PLATFORM DATA IN INTEGER FORMAT INITEM(NP)=0
- 30 CONTINUE

DO 36 ILOOP=1,MAXI

C NITEM(I,NP) WILL HOLD THE ITEM-IN-PLATFORM DATA

DO 33 NP=1,MAXNP NITEM(ILOOP,NP)=0.

- 33 CONTINUE
- C ITEM(I,1) WILL INDICATE WHETHER ITEM(I) WAS IN INITIAL FILE ITEM(ILOOP,1)=.FALSE.
- C ITEM(I,2) IS .TRUE. IF ITEM(I) IS AN LRU

 ITEM(ILOOP,2)=.FALSE.

- C YET(I) WILL INDICATE WHETHER ITEM(I) WAS IN A PARTICULAR FILE
 YET(ILOOP)=.FALSE.
- 36 CONTINUE
- C PLEASE ANNOUNCE US

WRITE(7,13) WRITE(6,10)

C READ IN THE INITIAL DATA FROM UNIT 18

REWIND 18 LASTI=0 DO 50 ILOOP=1,MAXI READ(18,1) XCOL1,I,LRU IF(XCOL1.EQ.STAR) GO TO 100 IF (I.GT.O.AND.I.LE.MAXI) GO TO 40

C ITEM INDEX OUT OF RANGE. NOTIFY AND SKIP TO NEXT CARD

CALL ERROR(8,1,18) GO TO 50

40 CONTINUE

ITEM(I,1)=.TRUE.

C CHECK IF THIS ITEM IS AN LRU. IF SO, MARK AND COUNT IT

IF(LRU.NE.1) GO TO 45
ITEM(I,2)=.TRUE.
IF (.NOT.YET(I)) NUMLRU=NUMLRU+1

45 CONTINUE

IF (.NOT.YET(I)) NUMITM=NUMITM+1
CALL CHECK1(I,18)

- 50 CONTINUE
- C IF WE GET HERE THEN THERE WERE TOO MANY RECORDS IN THE FILE CALL ERROR(11,0,18)
- 100 CONTINUE

```
I=NUMITM-NUMLRU
      WRITE(6,9) NUMLRU, I
С
      READ IN THE LRU IN PLATFORM MATRIX
      REWIND 25
      CALL CLRYET
С
      LABEL THE INPUT TABLE
      WRITE(7,14)
      WRITE(7,23) (I,I=1,MAXNP)
      IPAGE=0
      LASTI=0
      DO 200 ILOOP=1, NUMLRU
         READ(25,2) XCOL1, IL, (NITEM(IL, NP), NP=1, MAXNP)
         IF (XCOL1.NE.STAR) GO TO 120
С
         IF WE FOUND A STAR, THEN THERE ARE TOO FEW ITEMS IN THIS FILE
            CALL ERROR(13, IL, 25)
С
            NOW CHECK WHICH ITEMS ARE MISSING FROM THIS FILE
            DO 110 IL=1,MAXI
               IF (ITEM(IL,2).AND..NOT.YET(IL)) CALL ERROR(4,IL,25)
110
            CONTINUE
            ESCAPE. JUMP TO NEXT FILE
С
            GO TO 210
120
         CONTINUE
         ECHO PRINT THE FILE
         WRITE(7,12) IL,(NITEM(IL,NP),NP=1,MAXNP)
         IPAGE=IPAGE+1
         IF (IPAGE.LT.40) GO TO 130
            WRITE(7,14)
            WRITE(7,19)
            WRITE(7,23) (J1,J1=1,MAXNP)
            IPAGE=0
```

130

CONTINUE

			_						-	
\mathbf{IF}	(11.	GT.	Ο.	AND.	IL.	LE.	MAXI)	GO	TO	140

C ITEM INDEX OUT OF RANGE. NOTIFY AND SKIP TO NEXT CARD

CALL ERROR(8, IL, 25)

GO TO 200

140 CONTINUE

CALL CHECK1(IL,25)

C CHECK IF THIS LRU ITEM IS MARKED AS AN LRU IN INITIAL FILE

C (THIS FILE SHOULD HAVE ONLY LRU ITEMS)

IF (ITEM(IL,1).AND..NOT.ITEM(IL,2)) CALL ERROR(3,IL,25)

200 CONTINUE

C WE SHOULD BE AT THE BOTTOM OF THE FILE.

READ(25,2) XCOL1, IL, (INPVEC(J1), J1=1, MAXNP) IF (XCOL1.EQ.STAR) GO TO 210

C WE WEREN'T. READ ON, ERROR CHECKING AS BEFORE.

CALL ERROR(12,0,25)

206 CONTINUE

IF (IL.GT.O.AND.IL.LE.MAXI) GO TO 207

C ITEM INDEX OUT OF RANGE. NOTIFY AND SKIP TO NEXT RECORD

CALL ERROR(8, IL, 25)

GO TO 208

207 CONTINUE

C NOW THAT WE KNOW THAT WE HAVE A LEGAL SUBSCRIPT

DO 998 J1=1, MAXNP

NITEM(IL,J1)=INPVEC(J1)

998 CONTINUE

```
ECHO PRINT THE FILE
С
         IPAGE=IPAGE+1
         WRITE(7,12) IL,(NITEM(IL,NP),NP=1,MAXNP)
         IF (IPAGE.LT.40) GO TO 150
            WRITE(7,14)
            WRITE(7,19)
            WRITE(7,23) (J1,J1=1,MAXNP)
            IPAGE=0
         CONTINUE
150
         CALL CHECK1(IL,25)
         CHECK AGAIN IF THIS LRU ITEM IS MARKED AS AN LRU IN INITIAL
С
         FILE (THIS FILE SHOULD HAVE ONLY LRU ITEMS)
         IF (ITEM(IL,1).AND..NOT.ITEM(IL,2)) CALL ERROR(3,IL,25)
208
         CONTINUE
         READ(25,5) XCOL1,IL
С
         CHECK IF WE ARE AT THE END-OF-FILE MARKER OR END OF DATA
         IF (XCOL1.NE.STAR.AND.IL.NE.0) GO TO 206
         IF WE RAN OUT OF DATA WITHOUT A MARKER, NOTIFY
С
         IF (XCOL1.NE.STAR) CALL ERROR(9,0,25)
210
      CONTINUE
С
      READ IN THE LRU/SRU CROSS REFERENCE TABLE
      REWIND 26
      CALL CLRYET
С
      LABLE THE OUTPUT
      WRITE(7,18)
      WRITE(7,20)
      IPAGE=0
```

LASTI=0

```
DO 300 ILOOP=1,NUMLRU
         READ(26,4) XCOL1, IL, NDS, (ISRU(K), QPA(K), K=1,14)
         IF (XCOL1.NE.STAR) GO TO 225
С
            IF WE FOUND A STAR, THEN THERE ARE TOO FEW ITEMS HERE
            CALL ERROR(13,0,26)
С
            ESCAPE. JUMP TO NEXT FILE
            GO TO 310
225
         CONTINUE
С
         ECHO PRINT THE DATA
         IPAGE=IPAGE+1
         WRITE(7,21) IL, NDS, (ISRU(J1), QPA(J1), J1=1,14)
         IF (IPAGE.LT.40) GO TO 226
            WRITE(7,18)
            WRITE(7,19)
            WRITE(7,20)
            IPAGE=0
226
         CONTINUE
         IF (IL.GT.O.AND.IL.LE.MAXI) GO TO 227
С
            INDEX IS OUT OF RANGE. NOTIFY AND SKIP TO NEXT RECORD
            CALL ERROR(8, IL, 26)
            GO TO 300
227
         CONTINUE
         CALL CHECK1(IL, 26)
С
         CHECK IF THIS LRU ITEM IS MARKED AS AN LRU IN INITIAL FILE
         IF (ITEM(IL,1).AND..NOT.ITEM(IL,2)) CALL ERROR(3,IL,26)
С
         CHECK IF THE NUMBER OF SRUS IN THIS LRU EXCEEDS THE LIMIT
         IF (NDS.LE.MAXNDS) GO TO 228
            CALL ERROR(15, IL, 26)
```

С OF THE SRU LIST. NOTE THAT ADDITIONAL CARDS WILL BE READ AS LISTS FOR AN ITEM INDEXED ZERO, GENERATING MESSAGES. NDS=MAXNDS 228 CONTINUE С READ IN THE REST OF THE SRU DATA, OFF OF SUBSEQUENT CARDS C IF NECESSARY J2 = 14J3 = 14230 CONTINUE С CHECK IF THERE ARE MORE CARDS TO READ IF(.NOT.(NDS.GT.J3.AND.NDS.LE.MAXNDS)) GO TO 240 J2=J3+1J3=J2+13 $READ(26,17) \times COL1, (ISRU(J1), QPA(J1), J1=J2, J3)$ WRITE(7,22) (ISRU(J1), QPA(J1), J1=J2, J3) IF (XCOL1.NE.STAR) GO TO 230 CALL ERROR(16, IL, 26) С ESCAPE TO NEXT FILE GO TO 310 240 CONTINUE С THIS NEXT SET OF CODE IS THE ONLY CALCULATION DONE BY THIS С PROGRAM. IF THERE ARE ANY SRUS IN THIS LRU, THEN THEY ARE С ADDED INTO THE ITEM-IN-PLATFORM MATRIX IF (NDS.EQ.0) GO TO 250 DO 248 K=1,NDS IF (ISRU(K).GT.O.AND.ISRU(K).LE.MAXI) GO TO 244 С INDEX OUT OF RANGE. NOTIFY AND JUMP TO NEXT SRU CALL ERROR(6, IL, 26) GO TO 248 244 CONTINUE

SET NDS TO MAXNDS. THIS WILL GIVE SOME ERROR CHECKING

С

IF (.NOT.ITEM(ISRU(K),1)) CALL ERROR(2,K,26) С CHECK IF THIS SRU ITEM IS MARKED AS AN SRU IN INITIAL FILE IF (ITEM(1SRU(K),1).AND.ITEM(ISRU(K),2)) CALL ERROR(7,K,26) DO 246 NP≃1, MAXNP NITEM(ISRU(K), NP)=NITEM(ISRU(K), NP)+QPA(K)*NITEM(IL, NP) 246 CONTINUE 248 CONTINUE 250 CONTINUE 300 CONTINUE С THIS SHOULD BE THE END OF THE FILE READ(26,3) XCOL1 IF (XCOL1.EQ.STAR) GO TO 305 С IT WASN'T. NOTIFY, AND SKIP TO NEXT FILE CALL ERROR(12,0,26) WRITE(7,25) 305 CONTINUE С CHECK TO SEE IF WE MISSED ANY LRUS ALONG THE WAY DO 310 IL=1, MAXI IF (ITEM(IL,2).AND..NOT.YET(IL)) CALL ERROR(4,IL,26) 310 CONTINUE WRITE OUT THE ITEM IN PLATFORM FILE TO UNIT 21 AND THE OFFLINE PRINTER ONLY IF WE HAVE NOT ENCOUNTERED ANY ERRORS YET. С IF (NERR.NE.O) GO TO 314 С 'WROTE' FLAGS THAT WE WROTE THE FILE WROTE = . TRUE .

CHECK IF THIS SRU ITEM APPEARS IN THE INITIAL FILE

С

REWIND 18

```
С
         LABEL THE OUTPUT
         WRITE(7,15)
         WRITE(7,24) (I, I=1, MAXNP)
         IPAGE=0
         DO 313 ILOOP=1, NUMITM
            READ(18,5) XCOL1,I
С
            PRINT WITHOUT DECIMAL POINT IN A FIELD OF WIDTH FOUR
            DO 312 NP=1, MAXNP
               INITEM(NP)=INT(0.5+100*NITEM(I,NP))
312
            CONTINUE
            IPAGE=IPAGE+1
            WRITE(21,11) BLANK, I, (INITEM(NP), NP=1, MAXNP)
            WRITE(7,12) I,(NITEM(I,NP),NP=1,MAXNP)
            IF (IPAGE.LT.40) GO TO 313
               WRITE(7,15)
               WRITE(7,19)
               WRITE(7,24) (J1,J1=1,MAXNP)
               IPAGE=0
313
         CONTINUE
         WRITE(21,3) STAR
314
      CONTINUE
      CHECK THIS SUPPORT EQUIPMENT PER ITEM FILE FOR CONSISTENCY
      REWIND 20
      CALL CLRYET
      DO 400 ILOOP≈1,NUMITM
         READ(20,16) XCOL1,I,NRM,IRM
         IF(XCOL1.NE.STAR) GO TO 320
С
            IF WE FOUND A STAR THEN THERE ARE TOO FEW ITEMS HERE
            CALL ERROR(13,0,20)
C
            ESCAPE. JUMP TO NEXT FILE
```

GO TO 410

320	CONTINUE			
	IF (I.GT.O.AND.I.LE.MAXI) GO TO 340			
C	INDEX OUT OF RANGE. NOTIFY AND GO TO NEXT INDEX RECORD			
	CALL ERROR(8,1,20) GO TO 345			
340	CONTINUE			
	CALL CHECK1(I,20)			
345	CONTINUE			
С	SKIP NRM-1 LINES TO GET TO THE NEXT ITEM INDEX			
C	THIS GOTO IS TO A POINT INSIDE OF THE FOLLOWING DO LOOP, ONLY TO INSURE CHECKING OF THE CURRENT IRM VALUE.			
	IF (NRM.EQ.1) GO TO 350			
	NRMM1=NRM-1 DO 360 K=1,NRMM1 READ(20,16) XCOL1,IL,NRM,IRM			
	IF (IL.EQ.O.AND.NRM.EQ.O) GO TO 350 CALL ERROR(10,1,20)			
С С С	IT IS TOO DIFFICULT TO ANTICIPATE EXACTLY WHAT THE ERROR WAS AND TO LOCATE THE NEXT "CORRECT" RECORD, SO THE REST OF THE FILE IS NOT READ.			
	GO TO 415			
350	CONTINUE IF (IRM.LT.1.OR.IRM.GT.4) CALL ERROR(14,1,20)			
360	CONTINUE			

CONTINUE

	READ(20,16) XCOL1,I,NRM,IRM
С	WE SHOULD BE AT THE END OF THE FILE
	IF (XCOL1.EQ.STAR) GO TO 410
С	WE WEREN'T. NOTIFY, AND READ ON, ERROR CHECKING
	CALL ERROR(12,0,20)
402	CONTINUE IF (I.GT.O.AND.I.LE.MAXI) GO TO 404
С	INDEX OUT OF RANGE. NOTIFY, AND GO TO NEXT RECORD
	CALL ERROR(8,1,20) GO TO 406
404	CONTINUE
	CALL CHECK1(I,20)
406	CONTINUE
С	SKIP NRM-1 LINES TO GET TO THE NEXT ITEM INDEX
C C	THIS GOTO IS TO A POINT INSIDE OF THE FOLLOWING DO LOOP, ONLY TO INSURE CHECKING OF THE CURRENT IRM VALUE.
	IF (NRM.EQ.1) GO TO 408
	NRMM1=NRM-1 DO 409 K=1,NRMM1 READ(20,16) XCOL1,IL,NRM,IRM
	IF (IL.EQ.O.AND.NRM.EQ.O) GO TO 408 CALL ERROR(10,I,20)
С С С	IT IS TOO DIFFIGULT TO ANTICIPATE EXACTLY WHAT THE ERROR WAS AND TO LOCATE THE NEXT "CORRECT" RECORD, SO THE REST OF THE FILE IS NOT READ.
	GO TO 510
408	CONTINUE
40a	IF (IRM.LT.1.OR.IRM.GT.4) CALL ERROR(14,I,20)

READ(20,16) XCOL1, I, NRM, IRM

C CHECK IF AT END OF FILE OR END OF DATA

IF (XCOL1.NE.STAR.AND.I.NE.0) GO TO 402

C IF AT END OF DATA BUT NOT END OF FILE THEN MARKER MISSING

IF (XCOL1.NE.STAR) CALL ERROR(9,0,20)

410 CONTINUE

C CHECK IF WE MISSED ANY ITEMS ALONG THE WAY

CALL CHECK2(20)

415 CONTINUE

C CHECK THIS BY-ITEM FILE FOR CONSISTENCY

REWIND 22 CALL CLRYET

DO 500 ILOOP=1,NUMITM
READ(22,5) XCOL1,I
IF(XCOL1.NE.STAR) GO TO 420

C IF WE FOUND A STAR THEN THERE ARE TOO FEW ITEMS HERE

CALL ERROR(13,0,22)

C ESCAPE. JUMP TO NEXT FILE GO TO 510

420 CONTINUE IF (I.GT.O.AND.I.LE.MAXI) GO TO 440

C INDEX OUT OF RANGE. NOTIFY AND GO TO NEXT RECORD

CALL ERROR(8,1,22) GO TO 500

440 CONTINUE

CALL CHECK1(I,22)

500 CONTINUE

READ(22,5) XCOL1,I

- C WE SHOULD BE AT THE END OF THE FILE

 1F (XCOL1.EQ.STAR) GO TO 510
- C WE WEREN'T. NOTIFY, AND READ ON, ERROR CHECKING
 CALL ERROR(12,0,22)
- 505 CONTINUE IF (I.GT.O.AND.I.LE.MAXI) GO TO 507
- C INDEX OUT OF RANGE. NOTIFY AND GO TO NEXT RECORD

 CALL ERROR(8,1,22)
 GO TO 508
- 507 CONTINUE

CALL CHECK1(I,22)

- 508 CONTINUE READ(22,5) XCOL1,I
- C CHECK IF AT END OF FILE OR END OF DATA

 IF (XCOL1.NE.STAR.AND.I.NE.0) GO TO 505
- C IF AT END OF DATA BUT NOT END OF FILE THEN MARKER MISSING

 IF (XCOL1.NE.STAR) CALL ERROR(9,0,22)
- 510 CONTINUE
- C CHECK IF WE MISSED ANY ITEMS ALONG THE WAY
 CALL CHECK2(22)
- C CHECK THIS BY-ITEM FILE FOR CONSISTENCY
 REWIND 19
 CALL CLRYET

DO 600 ILOOP=1,NUMITM
READ(19,5) XCOL1,I
IF(XCOL1.NE.STAR) GO TO 520

C IF WE FOUND A STAR THEN THERE ARE TOO FEW ITEMS HERE

CALL ERROR(13,0,19)

C ESCAPE. JUMP TO NEXT FILE.

GO TO 610

520 CONTINUE

IF (I.GT.O.AND.I.LE.MAXI) GO TO 540

C INDEX OUT OF RANGE. NOTIFY AND GO TO NEXT FILE

CALL ERROR(8,1,19)

GO TO 600

540 CONTINUE

CALL CHECK1(I,19)

600 CONTINUE

READ (19,5) XCOL1, I

C WE SHOULD BE AT THE END OF THE FILE

IF (XCOL1.EQ.STAR) GO TO 610

C WE WEREN'T. NOTITY AND READ ON, ERROR CHECKING

CALL ERROR(12,0,19)

605 CONTINUE

IF (I.GT.O.AND.I.LE.MAXI) GO TO 607

C INDEX OUT OF RANGE. NOTIFY AND GO TO NEXT RECORD

CALL ERROR(8, I, 19)

GO TO 608

607 CONTINUE

CALL CHECK1(1,19)

608 CONTINUE
READ(19,5) XCOL1,I

C CHECK IF AT END OF FILE OR END OF DATA

IF (XCOL1.NE.STAR.AND.I.NE.0) GO TO 605

C IF AT END OF DATA BUT NOT END OF FILE THEN MARKER MISSING

IF (XCOL1.NE.STAR) CALL ERROR(9,0,19)

610 CONTINUE

C CHECK IF WE MISSED ANY ITEMS ALONG THE WAY

CALL CHECK2(19)

C GIVE THE NEWS

WRITE(6,6) NERR

IF (WROTE) WRITE(6,8)
IF (.NOT.WROTE) WRITE(6,7)

STOP

END

SUBROUTINE ERROR (TYPE, LINE, FILE)

- C THIS SUBROUTINE PRINTS OUT THE ERROR MESSAGES AND TALLIES
- C THE NUMBER OF ERRORS.

COMMON ITEM(150,2), NERR, YET(150), LASTI, MAXI INTEGER TYPE, LINE, FILE, MAXI, NERR LOGICAL ITEM, YET

- 1 FORMAT(/24H *ERROR 1* ITEM NUMBER ,I3,23H HAS TWO CARDS IN UNIT , +I2)
- FORMAT(/31H *ERROR 2* A NEW ITEM INDEXED ,13,9H APPEARS , +8HIN UNIT ,12)
- FORMAT(/25H *ERROR 3* AN SRU (ITEM ,13,21H) APPEARS IN THE LRU , +13HLIST IN UNIT ,12)
- 4 FORMAT(/17H *ERROR 4* ITEM ,13,22H IS MISSING FROM UNIT ,12)
- 5 FORMAT(/17H *ERROR 5* ITEM ,13,28H IS OUT OF SEQUENCE IN UNIT , +12)
- 6 FORMAT(/51H *ERROR 6* INVALID SRU INDEX IN LIST FOR LRU ITEM ,13, +9H IN UNIT ,12)
- 7 FORMAT(/25H *ERROR 7* AN LRU (ITEM ,13,20H) APPEARS IN THE SRU, +14H LIST IN UNIT ,12)
- FORMAT(/32H *ERROR 8* INVALID ITEM INDEX (,14,10H) APPEARS , +8HIN UNIT .12)
- FORMAT(/53H *ERROR 9* END OF FILE MARKER (*) MISSING FROM UNIT , +12)
- FORMAT(/38H *ERROR 10* FILE FORMAT ERROR IN UNIT ,12,5H: NRM/ +17X,15HVALUE FOR ITEM ,13,17H IS INCONSISTENT./ +17X,39HTHE REMAINDER OF THIS FILE IS NOT READ.)
- FORMAT(/53H *ERROR 11* ITEM DESCRIPTION FILE CONTAINS MORE THAN / +17X,29HTHE ALLOWABLE NUMBER OF ITEMS)
- FORMAT(/17H *ERROR 12* UNIT ,12,26H CONTAINS MORE ITEMS THAN , +12HINITIAL FILE)
- FORMAT(/17H *ERROR 13* UNIT ,12,27H CONTAINS FEWER ITEMS THAN , +12HINITIAL FILE)
- FORMAT(/44H *ERROR 14* IRM VALUE OUT OF RANGE FOR ITEM ,13/ +17X,8HIN UNIT ,12)
- FORMAT(/16H *ERROR 15* LRU ,13,24H CONTAINS TOO MANY SRUS , +8HIN UNIT ,12)
- FORMAT(/52H *ERROR 16* END OF FILE FOUND BEFORE END OF SRU LIST/ +17X,8HFOR LRU ,13,9H IN UNIT ,12)
 - IF (TYPE.EQ.1) WRITE(6,1) LINE, FILE
 - IF (TYPE.EQ.2) WRITE(6,2) LINE, FILE
 - IF (TYPE.EQ.3) WRITE(6,3) LINE, FILE
 - IF (TYPE.EQ.4) WRITE(6,4) LINE, FILE
 - IF (TYPE.EQ.5) WRITE(6,5) LINE, FILE

```
IF (TYPE.EQ.6) WRITE(6,6) LINE, FILE
IF (TYPE.EQ.7) WRITE(6,7) LINE, FILE
IF (TYPE.EQ.8) WRITE(6,8) LINE, FILE
IF (TYPE.EQ.9) WRITE(6,9) FILE
IF (TYPE.EQ.10) WRITE(6,10) FILE, LINE
IF (TYPE.EQ.11) WRITE(6,11)
IF (TYPE.EQ.12) WRITE(6,12) FILE
IF (TYPE.EQ.13) WRITE(6,13) FILE
IF (TYPE.EQ.14) WRITE(6,14) LINE, FILE
IF (TYPE.EQ.15) WRITE(6,15) LINE, FILE
IF (TYPE.EQ.16) WRITE(6,16) LINE, FILE
               WRITE(7,1) LINE, FILE
IF (TYPE.EQ.1)
IF (TYPE.EQ.2)
               WRITE(7,2) LINE, FILE
IF (TYPE.EQ.3) WRITE(7,3) LINE, FILE
IF (TYPE.EQ.4)
               WRITE(7,4) LINE, FILE
               WRITE(7,5) LINE, FILE
IF (TYPE.EQ.5)
               WRITE(7,6) LINE, FILE
IF (TYPE.EQ.6)
               WRITE(7,7) LINE, FILE
IF (TYPE.EQ.7)
IF (TYPE.EQ.8)
               WRITE(7,8) LINE, FILE
IF (TYPE.EQ.9) WRITE(7,9) FILE
IF (TYPE.EQ.10) WRITE(7,10) FILE, LINE
IF (TYPE.EQ.11) WRITE(7,11)
IF (TYPE.EQ.12) WRITE(7,12) FILE
IF (TYPE.EQ.13) WRITE(7,13) FILE
IF (TYPE.EQ.14) WRITE(7,14) LINE, FILE
IF (TYPE.EQ.15) WRITE(7,15) LINE, FILE
IF (TYPE.EQ.16) WRITE(7,16) LINE, FILE
```

NERR=NERR+1

RETURN

END

SUBROUTINE CLRYET

- THIS SUBROUTINE 'CLEARS OUT' YET(150) BY SETTING TO .FALSE. AND RESETS LASTI TO 0. С

COMMON ITEM(150,2), NERR, YET(150), LASTI, MAXI INTEGER I, NERR, MAXI, LASTI LOGICAL YET, ITEM

DO 10 I=1,MAXI YET(I) = .FALSE.

10 CONTINUE

LASTI=0

RETURN

END

SUBROUTINE CHECK1(I,FILE)

C THIS SUBROUTINE PERFORMS ERROR TESTS ON ITEM I IN FILE 'FILE'

COMMON ITEM(150,2), NERR, YET(150), LASTI, MAXI LOGICAL ITEM, YET INTEGER I, FILE, NERR, LASTI, MAXI

- C CHECK IF THIS ITEM IS IN SEQUENCE IF (I.LT.LASTI) CALL ERROR(5,1,FILE) LASTI=I
- C CHECK IF THIS ITEM APPEARED IN THE INITIAL FILE

 IF (.NOT.ITEM(I,1)) CALL ERROR(2,I,FILE)
- C CHECK IF THIS ITEM HAS ALREADY APPEARED IN THIS FILE

IF (YET(I)) CALL ERROR(1,I,FILE)
YET(I)=.TRUE.

RETURN

END

The second

SUBROUTINE CHECK2(FILE)

- C THIS SUBROUTINE CHECK WHICH ITEMS ARE MISSING FROM FILE 'FILE'.
- C NOTE THAT CHECK2 ONLY TEST FOR "ITEMNESS" AND NOT "LRUNESS", SO
- C THAT FILES INDEXED BY LRU ITEM ARE CHECKED IN THE MAIN PROGRAM.

COMMON ITEM(150,2), NERR, YET(150), LASTI, MAXI INTEGER I, FILE, NERR, LASTI, MAXI LOGICAL ITEM, YET

DO 10 I=1,MAXI IF (ITEM(1,1).AND..NOT.YET(1)) CALL ERROR(4,1,FILE)

10 CONTINUE

RETURN

END

APPENDIX E

LCC PROGRAM FORTRAN SOURCE CODE

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                                                                         COMMON /EXITXX/ EXITXX
                                                                           INTEGER EXITXX
                                                                         COMMON /ITERXX/ ITERXX
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                                                                           COMMON /RERDXX/ RERDXX
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                                                                           COMMON /NERRXX/ NERRXX
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                                                                           COMMON / REDOXX / REDOXX
                                                                             INTEGER REDOXX
C
                                                    1 FORMAT(1H1//22H PROGRAM STOPS DUE TO , 14,
                                                              + 16H ERRORS ON INPUT)
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CALL READ11
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                                      IF (LDCOND.NE.O.OR.(PRNTXX.NE.O.AND.LDERV .NE.O)) CALL DCOND
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                                    CALL DXMIL
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C# TELL THE USER TO ADJUST TERMINAL TO A NEW PAGE
\mathbb{C}
                                    CALL PRMPT4
                                       IF(EXITXX.EQ.1) GO TO 6
C
C
C* PRINT OUTPUT TABLES AT TERMINAL AND/OR OFFLINE PRINTER
Coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la coloridade de la colori
C
                                    CALL OTAB1
                                    CALL OTAB2
                                    CALL OTAB3A
                                    CALL OTAB3B
                                    CALL OTAB3C
                                    CALL OTAB4A
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CALL OTAB4B
                                            CALL OTAB4C
                                            CALL OTAB5
                                            CALL OTAB6
                                            CALL OTAB7
                                            CALL RLAPRT
                                            CALL PRMPT5
                                             IF(EXITXX.EQ.1) GO TO 6
С
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  Coperation of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the 
 C* PRINT SENSITIVITY TABLE AT TERMINAL AND/OR OFFLINE PRINTER
  Consequence and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
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                                           CALL OSENS
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 C* ASK THE USER WHETHER ANOTHER RUN IS DESIRED.
 С
                              6 CALL PRMPT6
                                             IF(REDOXX.EQ.O) GO TO 999
               888 CONTINUE
С
               999 STOP
 С
                                             END
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REAL MUSE

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Cst
                        ATU MOD LOR
C# READS THE MISCELLANEOUS SCALAR DATA
C# FILE FROM CHANNEL 11
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                                 COMMON /ACPP/ ACPP
                                  COMMON / BAA/ BAA
                                  COMMON /BDATA/ BDATA
                                  INTEGER BDATA
                                  COMMON /BF/ BF
                                 COMMON /BIRD: BIRD
                                  COMMON /BLR/ BLR
                                  COMMON / BMF/ BMF
                                 COMMON / BRCT / BRCT
                                  COMMON / CFG / CFG(3)
                                  COMMON /CPD1/ CPD1
                                  COMMON / CPD2 / CPD2
                                  COMMON / CPPC/ CPPC
                                  COMMON /CPPD/ CPPD(3)
                                  COMMON CROT/ CRCT
                                  COMMON JDAA/ DAA
                                  COMMON /DAD/ DAD
                                  COMMON / DDATA/ DDATA
                                  INTEGER DDATA
                                  COMMON /DLR/ DLR
                                  COMMON /DMF/ DMF
                                  COMMON FORCT DRCT(3)
                                  COMMON /FSEDC/ FSEDC
                                  COMMON /HPD1/ HPD1
                                  INTEGER HPD1
                                  COMMON /HPD2/ HPD2
                                  INTEGER HPD2
                                  COMMON / IMC/ IMC
                                  REAL IMC
                                  COMMON / KFAC / KFAC (4)
                                  REAL KFAC
                                  COMMON /MILR/ MILR(3)
                                  REAL MILR
                                  COMMON /MRF/ MRF
                                  REAL MRF
                                  COMMON /MRO/ MRO
                                  REAL MRO
                                  COMMON /MUSE/ MUSE
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COMMON /NRUC/ NRUC
 REAL NRUC
COMMON /OST/ OST(3)
 COMMON /OSTC/ OSTC
COMMON /PAL1/ PAL1
 COMMON /PAL2B/ PAL2B
 COMMON /PAL2D/ PAL2D
 COMMON /PIUP/ PIUP
 COMMON / PMLR/ PMLR
COMMON /QTYP1/ QTYP1
 INTEGER QTYP1
 COMMON /QTYP2B/ QTYP2B
 INTEGER QTYP2B
 COMMON /QTYP2D/ QTYP2D
 INTEGER QTYP2D
 COMMON /R/ R
 INTEGER R
 COMMON /RCPP/ RCPP
COMMON /RMC/ RMC
COMMON /SA/ SA
COMMON /SPC1/ SPC1
 INTEGER SPC1
COMMON /SPC2/ SPC2
 INTEGER SPC2
COMMON /SR/ SR
COMMON / TEFM ' TEFM
COMMON /TNLR/ TNLR
COMMON /TORB/ TORB
COMMON / TORD, TORD
COMMON /TR/ TR
COMMON /TRAVB/ TRAVB
COMMON /TRAVID/ TRAVID
COMMON /TYP2TF/ TYP2TF
COMMON / UCPP UCPP
COMMON /XFPR: XFPR
COMMON /XFR/ XFR
COMMON /XMIL: XMIL
COMMON /XUC/ XCC
NAMELIST /MISC/ BF, BAA, BLR, BMF, BRCT, CFG, CPPC, CPPD, CRCT, DAA, DAD, DLR
+, DMF, DRCT, IMC, KFAC, MILR, MUSE, NRUC, OST, OSTC, PIUP, PMLR, RMC, SA, TNLR, X
+FPR,XFR,XMIL,XUC,HPD2,TORB,TORD,MRO,MRF,SR,TR,PAL1,PAL2B,PAL2D,TRA
+V1D, TRAVB, ACPP, CPD2, RCPP, UCPP, BIRD, QTYP1, QTYP2B, QTYP2D, SPC2, TYP2TF
+, BDATA, CPD1, DDATA, FSEDC, HPD1, R, SPC1, TEFM
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 ${\rm C} \\ {\rm C}$

C

READ(11,MISC)

RETURN END

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810625 084600582
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                ATU MOD LCR
                READS THE BASE CONFIGURATION FILE
  C* FROM CHANNEL 12
 C distributed in the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction
 С
                               COMMON /BNOUN/ BNOUN(10,16)
                               COMMON /BPLAT/ BPLAT(10)
                               INTEGER BPLAT
                               COMMON /BSP/ BSP(10)
                               INTEGER BSP
                              COMMON /BTYPE/ BTYPE(10)
                               INTEGER BTYPE
                               COMMON /LO/ LO(10)
                               COMMON /MXNS/ MXNS
                              COMMON /NBC/ NBC(10)
                              REAL NBC
                              COMMON /NHB/ NHB(10)
                              COMMON /NS/ NS
                              COMMON /TNB/ TNB(10)
                              COMMON /NERRXX/ NERRXX
                              COMMON /PRNTXX/ PRNTXX
                               INTEGER PRNTXX
                             DATA XXSTAR/1H*/
                    1 FORMAT(A1, I2, 16A1, F3.0, 3I2, F3.0, 2I2)
                    2 FORMAT(A1)
                    3 FORMAT(/49H UNIT 12 ERROR: END OF FILE CARD NOT FOUND AFTER/
                         +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
                             MXNS=0
                             DO 210 NS=1,10
                                        READ(12, 1) XXCOL1, NS1, (BNOUN(NS, I1), I1=1, 16), TNB(NS), LO(NS),
                                                  BTYPE(NS), NHB(NS), NBC(NS), BPLAT(NS), BSP(NS)
                                         IF (XXCOL1.EQ.XXSTAR) RETURN
                                       MXNS=NS
          210 CONTINUE
                             READ(12, 2) XXCOL1
                             IF(XXCOL1.EQ.XXSTAR) RETURN
                             NERRXX=NERRXX+1
                             WRITE(6, 3)
                              IF(PRNTXX.NE.0) WRITE(7, 3)
C
                             RETURN
                             END
```

```
С
                                                                                                                                               810625 084601349
C* READS THE PLATFORM OPERATIONAL DATA FILE
C* FROM CHANNEL 13
С
               COMMON /AMPM/ AMPM(5,3)
               COMMON /APFH/ APFH(5,3)
               COMMON /FGH/ FGH(5)
               COMMON /LE/ LE(5)
               COMMON /M/ M
               COMMON /MMPD/ MMPD(5,3)
               REAL MMPD
               COMMON /MMPM/ MMPM(5)
               REAL MMPM
               COMMON /MXNP/ MXNP
               COMMON /NP/ NP
               COMMON /PNOUN/ PNOUN(5,12)
               COMMON /TFAC/ TFAC(5)
               COMMON /THRS/ THRS(5)
               COMMON /NERRXX/ NERRXX
               COMMON /PRNTXX/ PRNTXX
                INTEGER PRNTXX
               DATA XXSTAR/1H*/
          1 FORMAT(A1,13,12A1,12,3F4.0,F3.2,4X,F3.1,3F4.1,3F5.1,F7.0,F5.0)
          2 FORMAT(A1)
          3 FORMAT(/49H UNIT 13 ERROR: END OF FILE CARD NOT FOUND AFTER/
            +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
С
               MXNP=0
               DO 210 NP=1.5
                     READ(13, 1) XXCOL1, NP1, (PNOUN(NP,K1),K1=1,12), LE(NP), (APFH(NP,K1),K1=1,12), 
                         M), M=1,3), TFAC(NP), MMPM(NP), (AMPM(NP,M),M=1,3), (MMPD(NP,M),
                         M=1,3), THRS(NP), FGH(NP)
                     IF(XXCOL1.EQ.XXSTAR) RETURN
                    MXNP=NP
     210 CONTINUE
                READ(13, 2) XXCOL1
                IF(XXCOL1.EQ.XXSTAR) RETURN
               NERRXX=NERRXX+1
               WRITE(6, 3)
                IF(PRNTXX.NE.0) WRITE(7, 3)
С
                RETURN
                END
```

```
С
                                                                                                                                                              810625 084602489
ATU MOD LCR
C* READS THE PLATFORM TERMINAL COST & NONRECURRING MOD/I
                                                                                                                                                                                                        į.
C* DATA FILE FROM CHANNEL 14
                                                                                                                                                                                                        ٠,
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                 COMMON /DRAG/ DRAG(5)
                 COMMON /FR/FR(3,5)
                 COMMON /INTNR/ INTNR(5)
                 REAL INTER
                 COMMON / INTR/ INTR(5)
                 REAL INTR
                 COMMON /K/ K(5)
                 REAL K
                 COMMON /M/ M
                 COMMON /MXNP/ MXNP
                 COMMON /NAE/ NAE(5)
                 REAL NAE
                 COMMON /NP/ NP
                 COMMON /NRMI/ NRMI(5)
                 REAL NRMI
                 COMMON /NTRMP/ NTRMP(5)
                 REAL NTRMP
                 COMMON /PDIV/ PDIV(5)
                 COMMON /NERRXX/ NERRXX
                 COMMON / PRNTXX / PRNTXX
                 INTEGER PRNTXX
                 DATA XXSTAR/1H*/
            1 FORMAT(A1, I3, F4.2, F9.0, F8.0, F9.0, F4.2, 3F3.2, F3.0, 2F4.2)
           2 FORMAT(A1)
            3 FORMAT(/49H UNIT 14 ERROR: END OF FILE CARD NOT FOUND AFTER/
              +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
С
С
                 MXNP=0
                DO 210 NP=1,5
                      READ(14, 1) XXCOL1, NP1, NTRMP(NP), INTNR(NP), INTR(NP), NRMI(NP),
                           PDIV(NP), (FR(M,NP), M=1,3), DRAG(NP), K(NP), NAE(NP)
                      IF(XXCOL1.EQ.XXSTAR) RETURN
                      MXNP=NP
      210 CONTINUE
C
                 READ(14, 2) XXCOL1
                 IF(XXCOL1.EQ.XXSTAR) RETURN
                 NERRXX=NERRXX+1
                 WRITE(6, 3)
```

IF(PRNTXX.NE.0) WRITE(7, 3)

C RETURN END

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SUBROUTINE READS
                                                                                                                                                                                                                                                                                                                          810625 084603670
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C* ATU MOD LCR
C* READS THE PLATFORM RECURRING MOD/INSTALLATION
C* DATA FILE FROM CHANNEL 15
Contraction that the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle of the triangle 
C
                                 COMMON /AKIT/ AKIT(4,5)
                                 COMMON /IA/ IA
                                  COMMON /M/ M
                                  COMMON /MIFIX/ MIFIX(3,5)
                                  REAL MIFIX
                                  COMMON /MIMH/ MIMH(4,3,5)
                                 REAL MIMH
                                 COMMON /MXNP/ MXNP
                                 COMMON /NP/ NP
                                 COMMON /NERRXX/ NERRXX
                                 COMMON /PRNTXX/ PRNTXX
                                 INTEGER PRNTXX
                                 DATA XXSTAR/1H*/
                       1 FORMAT(A1, I3, 7F5.0, 12F3.0)
                       2 FORMAT(A1)
                       3 FORMAT(/49H UNIT 15 ERROR: END OF FILE CARD NOT FOUND AFTER/
                            +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
                                 MXNP=0
                                 DO 210 NP=1,5
                                             READ(15, 1) XXCOL1, NP1, (MIFIX(M, NP), M=1,3), (AKIT(IA, NP), IA=1,4),
                                                         ((MIMH(IA,M,NP),IA=1,4),M=1,3)
                                              IF(XXCOL1.EQ.XXSTAR) RETURN
                                             MXNP≃NP
            210 CONTINUE
                                  READ(15, 2) XXCOL1
                                  IF(XXCOL1.EQ.XXSTAR) RETURN
```

NERRXX=NERRXX+1 WRITE(6, 3)

RETURN END

C

IF(PRNTXX.NE.0) WRITE(7, 3)

```
SUBROUTINE READ6
C
                                                                                                                                                                                                                                                                                                                                                     810625 084607869
Citable the shale * READS THE PLATFORM DEPLOYMENT AT BASES
C* DATA FILE FROM CHANNEL 10
C the state of the state is the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
C
                                     COMMON /MXNP/ MXNP
                                     COMMON /NP/ NP
                                     COMMON /NPLT/ NPLT(5,10)
                                     REAL NPLT
                                     COMMON /NS/ NS
                                     COMMON /NERRXX/ NERRXX
                                     COMMON /PRNTXX/ PRNTXX
                                     INTEGER PRNTXX
                                     DATA XXSTAR/1H*/
                         1 FORMAT(A1, I3, 16F4.2)
                         2 FORMAT(A1)
                         3 FORMAT(/49H UNIT 16 ERROR: END OF FILE CARD NOT FOUND AFTER/
                              +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
С
С
                                     MXNP=0
                                     DO 210 NP=1,5
                                                 READ(16, 1) XXCOL1,NP1,(NPLT(NP,NS),NS=1,10)
                                                 IF(XXCOL1.EQ.XXSTAR) RETURN
                                                MXNP=NP
            210 CONTINUE
С
                                     READ(16, 2) XXCOL1
                                     IF(XXCOL1.EQ.XXSTAR) RETURN
                                     NERRXX=NERRXX+1
                                     WRITE(5, 3)
                                     IF(PRNTXX.NE.0) WRITE(7, 3)
C
                                     RETURN
```

END

```
810625 084610000
Cut the first the effective the transfer that the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effective the effectiv
              ATU MOD LCR
C* READS THE SUPPORT EQUIPMENT DATA
C* FILE FROM CHANNEL 17
Cultural and a standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard
C
                             COMMON /CSE/ CSE(120)
                             COMMON /DATAS/ DATAS(120)
                             INTEGER DATAS
                             COMMON /L/ L
                             COMMON /MSE/ MSE(120)
                             REAL MSE
                             COMMON /MXL/ MXL
                             COMMON /SEDEV/ SEDEV(120)
                             COMMON /SEINO/ SEINO(120)
                             INTEGER SEINO
                             COMMON /SENOUN/ SENOUN(120,20)
                             COMMON /SENUM/ SENUM(120,12)
                             COMMON /SETYPE/ SETYPE(120)
                              INTEGER SETYPE
                             COMMON /NERRXX/ NERRXX
                             COMMON /PRNTXX/ PRNTXX
                             INTEGER PRNTXX
                             DATA XXSTAR/1H*/
                    1 FORMAT(A1, I3, 20A1, 12A1, F7.0, F4.3, I2, I3, F8.0)
                   2 FORMAT (A1)
                    3 FORMAT(/49H UNIT 17 ERROR: END OF FILE CARD NOT FOUND AFTER/
                        +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
                             MXL=0
                             DO 210 IXXXI=1,120
                                      READ(17, 1) XXCOLI,L,(SENOUN(L,I1),I1=1,20),(SENUM(L,I2),I2=1,
                                                 12), CSE(L), MSE(L), SETYPE(L), DATAS(L), SEDEV(L)
                                        IF(XXCOL1.EQ.XXSTAR) RETURN
                                      MXL≈IXXX1
                                      SEINO(JXXX1)=L
           210 CONTINUE
                              READ(17, 2) XXCOL1
                              IF(XXCOL1.EQ.XXSTAR) RETURN
                             NERRXX=NERRXX+1
                             WRITE(6, 3)
                              IF(PRNTXX.NE.0) WRITE(7, 3)
 C
```

RETURN END

```
C
                                                                                                                                                                                                                                                                        810625 084611828
Considerate a service of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the considerate of the con
C* ATU MOD LCR
                                                                                                                                                                                                                                                                                                                                               4
C:;
                  READS THE ITEM EQUIPMENT DATA FILE
C# FROM CHANNEL 18
                                                                                                                                                                                                                                                                                                                                                *
Cutata in the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the
                            COMMON /GFE/ GFE(150)
                             INTEGER GFE
                             COMMON /1/ I
                            COMMON /INO/ INO(150)
                             COMMON /INOUN/ INOUN(150,24)
                             REAL INOUN
                             COMMON /INTEG/ INTEG(150)
                             REAL INTEG
                             COMMON /LFAC/ LFAC(150)
                             REAL LFAC
                             COMMON /LRU: LRU(150)
                            COMMON /MXI/ MXI
                             COMMON /NHI/ NHI(150)
                             COMMON /PA/ PA(150)
                             COMMON /PTNUM/ PTNUM(150,12)
                            COMMON /RM/ RM(150)
                             COMMON /UP: UP:150)
                            COMMON /WT/ WT(150)
                            COMMON / NERRXX / NERRXX
                             COMMON / PRNTXX/ PRNTXX
                             INTEGER PRNTXX
                           DATA XXSTAR/1H#/
                    1 FORMAT(A), 13, 24A1, 12A1, F3.2, I2, I3, 2I2, F6.0, F4.3, F5.2, F4.2)
                    2 FORMAT(A1)
                    3 FORMATC/49H UNIT 18 ERROR: END OF FILE CARD NOT FOUND AFTER/
                       +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
C
C
                             MXI=0
                             DO 210 IXXX1=1,150
                                      READ(18, 1) XXCOL1, I, (INOUN(1,K1), K1=1,24), (PTNUM(1,K2), K2=1,
                                               12), LFAC(1), LRU(1), NHI(1), GFE(1), INTEG(1), UP(1), RM(1), WT(1),
                                               PA(I)
                                      IF(XXCOLI.EQ.XXSTAR) RETURN
                                      MXI = IXXXI
                                       1NO(1XXX1) = 1
          210 CONTINUE
\mathbf{C}
                             READ(18, 2) XXCOL1
```

IF(XXCOL1.EQ.XXSTAR) RETURN NERRXX=NERRXX+1 WRITE(6, 3) IF(PRNTXX.NE.0) WRITE(7, 3)

C RETURN END

```
810625 084615143
\mathbf{c}
C# READS THE ITEM MAINTENANCE DATA PILE
C* FROM CHANNEL 19
Charlest establishment of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro
               COMMON FROME BOME 1500.
               COMMON /BMH BMH(150)
               COMMON (COND. COND-150)
               COMMON TIME DMH (150)
               COMMON (FPR FPR: 150)
               COMMON THE E
               COMMON INC. IN (1560)
               COMMON (IPCE IPCE(150))
               REAL IPCE
               COMMON /MTRMI MTBMI. 150,41
               REAL MIRMI
               COMMON /MXI MX
               COMMON /NRTS NATS 1500
               REAL NRTS
               COMMON - RIP RIP 150)
               COMMON RL RL(150)
                INTEGER RL
               COMMON - RMH RMH (150)
               COMMON RGS RTS(150)
               COMMON WEAR WEAR (150)
               COMMON INERRXX NERRXX
               COMMON - PRNTXX ( PRNTXX
               INTEGER PRYTXX
               DATA XXSTAR 1H#/
          1 FORMAT(A1, 13, 4F8 0, F4. 3, F3. 2, F5. 2, 3F4. 3, 4F4. 2, I1)
          2 FORMAT(A1)
          3 FORMAT(749H UNIT 19 ERROR: END OF FILE CARD NOT FOUND AFTER/
             +1 X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
          4 FORMATEIX, 3 MINPUT ERROR: INPUT FILE READ IN FROM/
            +51HCHANNEL # 19 CONTAINS FEWER ITEMS THAN ITITIAL FILE)
           S FORMATOIN, 49HINDUT ERROR: INDEXING IN INDUT FILE READ IN FROM/
             +46HCHANNEL # 19 IS INCONSISTENT WITH INITIAL FILE)
C
               DO 21/ (XXX)=1,MXI
                    READ(19, 1: XXC(11,1,(MTBMI(1,K1),K1=1,4),FPR(1),RIP(1),IPCF(1),
                      RTS(1), RRTS(1), COND(1), RMH(1), BCMH(1), BMH(1), DMH(1), RL(1)
                    WEAR ( LET CONDICT)
                    TECNNOCLI NELXESTAR) GO TO 200
                    NERKXX "NERREN+1
```

```
WRITE(6, 4)
        IF(PRNTXX.NE.O) WRITE(7, 4)
        RETURN
  200
       CONTINUE
                .EQ.INO (IXXX1))GO TO 210
        IF(I
       NERRXX=NERRXX+1
        WRITE(6, 5)
        IF(PRNTXX.NE.0) WRITE(7, 5)
  210 CONTINUE
С
      READ(19, 2) XXCOL1
      IF(XXCOL1.EQ.XXSTAR) RETURN
      NERRXX=NERRXX+1
     WRITE(6, 3)
      IF(PRNTXX.NE.0) WRITE(7, 3)
С
      RETURN
      END
```

IF (IRNIE) NEWS WRITE(7, 5)

210 CONTINUE

READCLE, . : Noteta

C

IF(XXCOL1.EQ.XXSTAR) RETURN
NERRXX=NERRXX+1
WRITE(6, 3)
IF(PRNTXX.NE.0) WRITE(7, 3)

С

RETURN END

```
SUBROUTTINE READIO
                                                                                                                                                                                                                                                                                                                             810625 084631402
Creation and the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of 
С
 C* ATU MOD LCR
C* READS THE ITEM SUPPORT EQUIPMENT
C* CROSS-REFERENCE DATA FILE FROM CHANNEL 20
 Cualitation and an analysis of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of
                                     COMMON (A) A(150,4,3)
                                     INTEGER A
                                     COMMON . I - I
                                     COMMON (INC. INC. 159)
                                      COMMON TIRMING TRMIN(150,4)
                                      COMMON PARTY WELL
                                      COMMON INJA NJA 150,40
                                      COMMON /NRM/ NRM(150)
                                      COMMON (QSA/ QSA(150,4,3)
                                      COMMON /NERRXX/ NERRXX
                                      COMMON , PRNTXXX PRNTXX
                                      INTEGER PRNIXX
                                      DATA XXSTAR THE?
                              1 FORMAT(A1,13,212,13,3(14,F3.0))
                              2 FORMATIAL)
                             3 FORMATC. 49H UNIT 20 ERROR: END OF FILE CARD NOT FOUND AFTER/
                                  +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
                             4 FORMATCIX, 37HINPUT ERROR: INPUT FILE READ IN FROM/
                                  +51HCHANNEL = TO CONTAINS FEWER ITEMS THAN ITITIAL FILE)
                               5 FORMATOIX, 49HINFOT EAROR: INDEXING IN INPUT FILE READ IN FROM/
                                   +46HCHANNEL # 20 IS INCONSISTENT WITH INITIAL FILE)
                                         DO 220 IXXX1=1,MXI
                                                    READ(20, 1) XXTOL1, I, NRM(I), IRMIN(I, 1), NJA(I, 1), (A(I, 1, K2), IRMIN(I, 1), IRMIN(I, 1), NJA(I, 1), (A(I, 1, K2), IRMIN(I, 1), IRMIN(I, 1), IRMIN(I, 1), (A(I, 1, K2), IRMIN(I, 1), IRMIN(
                                                              QSA(1,1,K2),K2=1,3)
                                                       FF(XXCOLI.NE.XXSTAR) GO TO 200
                                                       NERRXX=NERRXX+1
                                                       WRITE(6, 4)
                                                       IF(PRNTXX.NE.O) WRITE(7, 4)
                                                       RETURN
                                                       CONTINUE
                      200
                                                                                                            .EQ.1NO (1XXX1))GO TO 205
                                                        IF(I
                                                        NERRXX=NERRXX+1
                                                         WRITE(6, 5)
                                                         IF(PRNTXX.NE.0) WRITE(7, 5)
            C....IF(NJA(1,RITEMP),GT.9)<
             C..... ITER=(NJA(I,1)-1)/9;
```

```
C..... DO 205 K2TEMP=1, ITER
C....
             K3=MINO(K2+9,30);
C.....
             K4=K2+1;
C.....
             READ(20,6)(A(I,1,K2),QSA(I,1,K2),K2=K4,K3)
C..... 6 FORMAT(11X,9(14,F3.0))
  205 CONTINUE
        IF(.NOT.(NRM(I).GT.1)) GO TO 210
          INRM=NRM(I)
С
      DO 215 K1TEMP=2, INRM
        READ(20,7)IRMIN(I,K1TEMP),NJA(I,K1TEMP),
     +(A(I,K1TEMP,K2),QSA(I,K1TEMP,K2),K2=1,3)
    7 FORMAT(6X,12,13,3(14,F3.0))
             IF (.NOT.(NJA(I,K1TEMP).GT.9)) GO TO 214
C\ldots\ldots\ldots
                ITER=(NJA(I,K1TEMP)-1)/9
\mathtt{C}\ldots\ldots\ldots
                DO 212 K2TEMP=1, ITER
C......
                  K3=MINO(K2+9,30)
                  K4=K2+1
                  READ(20,8) (A(I,K1TEMP,K2),
                  QSA(1,K1TEMP,K2),K2=K4,K3)
                  FORMAT(11X, 9(14, F3.0))
C.....212
                 CONTINUE
C.....214 CONTINUE
  215 CONTINUE
  210
      CONTINUE
  220 CONTINUE
      READ(20, 2) XXCOL1
      IF(XXCOL1.EQ.XXSTAR) RETURN
      NERRXX=NERRXX+1
      WRITE(6, 3)
      IF(PRNTXX.NE.O) WRITE(7, 3)
C
      RETURN
      END
```

```
Compare the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state 
C* BASELINE CHANGE
           READS THE ITEM CONFIGURATION DATA
C* FILE FROM CHANNEL 21
COMMON /I/ I
                    COMMON /INO/ INO(150)
                    COMMON /MXI/ MXI
                    COMMON /NITEM/ NITEM(150,5)
                     REAL NITEM
                     COMMON /NP/ NP
                     COMMON /NERRXX/ NERRXX
                    COMMON / PRNTXX/ PRNTXX
                     INTEGER PRNTXX
                     DATA XXSTAR/1H*/
              1 FORMAT(A1, I3, 10F4.2)
              2 FORMAT(A1)
              3 FORMAT(/49H UNIT 21 ERROR: END OF FILE CARD NOT FOUND AFTER/
                 +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
              4 FORMAT(1X,37HINPUT ERROR: INPUT FILE READ IN FROM/
                 +51HCHANNEL # 21 CONTAINS FEWER ITEMS THAN ITITIAL FILE)
              5 FORMAT(1X,49H1NPUT ERROR: INDEXING IN INPUT FILE READ IN FROM/
                 +46HCHANNEL # 21 IS INCONSISTENT WITH INITIAL FILE)
```

810625 084645796

IF(I .EQ.INO (IXXX1))GO TO 210 NERRXX=NERRXX+1 WRITE(6, 5)IF(PRNTXX.NE.0) WRITE(7, 5)210 CONTINUE READ(21, 2) XXCOL1 IF(XXCOL1.EQ.XXSTAR) RETURN NERRXX=NERRXX+1 WRITE(6, 3)IF(PRNTXX.NE.0: WRITE(7, 3)

DO 210 IXXX1=1,MXI

NERRXX=NERRXX+1 WRITE(6, 4)

RETURN

CONTINUE

SUBROUTINE READ11

C

С

С C

200

READ(21, 1) XXCOL1, I, (NITEM(I, NP), NP=1, 5)

IF(XXCOLLINE.XXSTAR) GO TO 200

IF(PRNTXX.NE.0) WRITE(7, 4)

C RETURN END

SUBROUTINE INITAX

```
810625 084647151
Control of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the fir
C# ATU MODS
C# INITIALIZATION OF MODEL PARAMETERS
C
                 COMMON FARC AFC
                 COMMON / AFMC/ AFMC
                 COMMON /BAFC: BAFC(6)
                 COMMON BLIMC BLIMC(6)
                 COMMON /BISC/ BISC(6)
                 COMMON BMTRC/ BMTRC
                 COMMON / BOEMC - BOEMC(6)
                 COMMON BOLD BOLD(6)
                 COMMON BONMC, BONMC(6)
                 COMMON /BRSC/ BRSC(6)
                 COMMON /BS/ BS(150)
                 CHMMON / BSECC/ BSECC(6)
                 COMMON / BSECP, BSECP(6)
                 COMMON /BTCDI/ BTCDI
                 COMMON BXTRC BXTRC
                 COMMON DMTRC DMTRC
                 COMMON / ERHAB = ERHAB (120, 10)
                 COMMON /ERHAD: ERHAD(120)
                 COMMON ERHD (150)
                 COMMON FAIL FAIL (150, 10)
                 COMMON FPLT FPLT(150)
                 COMMON / FPM / FPM (150)
                 COMMON 717 I
                 COMMON TIMEA, TIMEA(150)
                 REAL TIMOA
                 COMMON FLIMOR, LIMOR
                 REAL LIMOB
                 COMMON / LIMCD, LIMCD
                  REAL LIMCD
                 COMMON / LIMGI / LIMGI
                 REAL LIMCT
                 COMMON / LIMCR : LIMCR
                 REAL LIMCR
                 COMMON / IMTRO IMTRO
                 REAL IMTRO
                 COMMON INO INO(150)
                 COMMON = ISCB := ISCB
                 REAL ISCB
                 \texttt{COMMON} = \texttt{ISCD} \leftarrow \texttt{ISCD}
                 REAL ISCD
```

COMMON /ISET/ ISET(120,10) REAL ISET COMMON /ISETD/ ISETD(120) REAL ISETD COMMON /L/ L COMMON /MTRC/ MTRC REAL MTRC COMMON /MTRCI/ MTRCI(150) REAL MTRCI COMMON /MXI/ MXI COMMON /MXL/ MXL COMMON /MXNS/ MXNS COMMON /NFD/ NFD(150) REAL NFD COMMON /NS/ NS COMMON /OFMCA/ OFMCA(150) COMMON /OFMCB/ OFMCB COMMON /OFMCD/ OFMCD COMMON /OLCP/ OLCP COMMON /OLCT/ OLCT COMMON /ONMC/ ONMC COMMON /ONMCA/ ONMCA(150) COMMON /RSC/ RSC COMMON /SECBC/ SECBC COMMON /SECBP/ SECBP COMMON /SECC/ SECC COMMON /SECDC/ SECDC COMMON /SECDP/ SECDP COMMON /SECIC/ SECIC COMMON /SECII/ SECII COMMON /SECIP/ SECIP COMMON /SECP/ SECP COMMON /SECR/ SECR COMMON /SECRC/ SECRC COMMON /SECRP/ SECRP COMMON /SEDC/ SEDC COMMON /SEINO/ SEINO(120) INTEGER SEINO COMMON /SEPC/ SEPC COMMON /SETDC/ SETDC(120) COMMON /STDC/ STDC COMMON /STDCI/ STDCI COMMON /STDCR/ STDCR COMMON /TDC/ TDC(150) COMMON /TERHB/ TERHB(120) COMMON /TERHD/ TERHD(120)

COMMON /TERMH/ TERMH

```
COMMON /TERMI/ TERMI
      COMMON /TIAC/ TIAC(150)
      COMMON /TUCTDC/ TUCTDC
      COMMON /USE/ USE(120,10)
      COMMON /USED/ USED(120)
      COMMON /XITEMQ/ XITEMQ(150)
С
С
      DO 220 IXXX1=1,MXL
        L=SEINO(IXXX1)
        TERHB(L)=0.
        TERHD(L)=0.
        SETDC(L)=0.
        ERHAD(L)=0.
        ISETD(L)=0.
        USED(L)=1.
        DO 210 NS=1,MXNS
          ERHAB(L,NS)=0.
          ISET(L,NS)=0.
          USE(L,NS)=1.
  210
        CONTINUE
  220 CONTINUE
      DO 240 IXXX1=1,MXI
        I=INO(IXXX1)
        NFD(I)=0.
        ERHD(I)=0.
        XITEMQ(I)=0.
        BS(I)=0.
        TIAC(I)=0.
        TDC(I)=0.
        FPM(I)=0.
        MTRCI(I)=0.
        FPLT(I)=0.
        ONMCA(I)=0.
        OFMCA(I)=0.
        IIMCA(1)=0.
        DO 230 NS=1,MXNS
          FAIL(I,NS)=0.
  230
        CONTINUE
  240 CONTINUE
      TERMH=0.
      TERMI=0.
      ISCB=0.
      ISCD=0.
      RSC=0.
      ONMC=0.
      OFMCB=0.
```

```
OFMCD=0.
SEPC=0.
SEDC=0.
TUCTDC=0.
SECII=0.
SECR=0.
IIMCB=0.
IIMCD=0.
IIMCI=0.
IIMCR=0.
OLCP=0.
OLCT=0.
AFC=0.
BSECC(1)=0.
BSECC(2)=0.
BSECC(3)=0.
BSECC(4)=0.
BSECC(5)=0.
 BSECC(6)=0.
BSECP(1)=0.
 BSECP(2)=0.
 BSECP(3)=0.
 BSECP(4)=0.
 BSECP(5)=0.
 BSECP(6)=0.
 BOLC(1)=0.
 BOLC(2)=0.
 BOLC(3)=0.
 BOLC(4)=0.
 BOLC(5)=0.
 BOLC(6)=0.
 BAFC(1)=0.
 BAFC(2)=0.
 BAFC(3)=0.
 BAFC(4)=0.
 BAFC(5)=0.
 BAFC(6)=0.
 BISC(1)=0.
 BISC(2)=0.
 BISC(3)=0.
 BISC(4)=0.
 BISC(5)=0.
 BISC(6)=0.
 BRSC(1)=0.
 BRSC(2)=0.
  BRSC(3)=0.
  BRSC(4)=0.
```

```
BRSC(5)=0.
BRSC(6)=0.
BONMC(1)=0.
BONMC(2)=0.
BONMC(3)=0.
BONMC(4)=0.
BONMC(5)=0.
BONMC(6)=0.
BOFMC(1)=0.
BOFMC(2)=0.
BOFMC(3)=0.
BOFMC(4)=0.
BOFMC(5)=0.
BOFMC(6)=0.
BIIMC(1)=0.
BIIMC(2)=0.
BIIMC(3)=0.
BIIMC(4)=0.
BIIMC(5)=0.
BIIMC(6)=0.
AFMC=0.
BMTRC=0.
BTCDI=0.
BXTRC=0.
DMTRC=0.
IMTRC=0.
MTRC=0.
SECBC=0.
SECBP=0.
SECC=0.
SECDC=0.
SECDP=0.
SECIC=0.
SECIP=0.
SECP=0.
SECRC=0.
SECRP=0.
STDC=0.
STDCI=0.
STDCR=0.
RETURN
```

С

END

54

SUBROUTINE ERRCK1

```
С
                                                                                                                                                810625 084734295
PERFORM ERROR CHECKING ON INPUT DATA FILES
Constitution in the desiration of the desiration is a factor of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of th
С
               COMMON / PRNTXX/ PRNTXX
               INTEGER PRNTXX
               COMMON /COND/ COND(150)
               COMMON /I/ I
               COMMON / INO/ INO(150)
               COMMON /LE/ LE(5)
               COMMON /LRU/ LRU(150)
               COMMON /M/ M
               COMMON /MTBMI/ MTBMI(150,4)
               REAL MTBMI
               COMMON /MXI/ MXI
               COMMON /MXM/ MXM
               COMMON /MXNP/ MXNP
               COMMON / NERRYY / NERRYY
               COMMON /NHI/ NHI(150)
               COMMON /NITEM/ NITEM(150,5)
                REAL NITEM
               COMMON /NJA/ NJA(150,4)
               COMMON /NP/ NP
               COMMON /NRTS/ NRTS(150)
               REAL NRTS
               COMMON /RTS/ RTS(150)
           1 FORMAT(/5X,49HINPUT ERROR: RTS + NRTS + COND == 1 FOR ITEM TYPE,15
             + }
          2 FORMAT(/5X,70H1NPUT ERROR: INDENTURE LEVEL INDICATORS (LRU & NH1)
             +NOT CONSISTENT FOR/7X,9HITEM TYPE, 15)
          3 FORMAT(/5X,70HINPUT ERROR: INDENTURE LEVEL INDICATORS (LRU & NHI)
             +NOT CONSISTENT FOR/7X,9HITEM TYPE,15)
          4 FORMAT(/5X,47HINPUT ERROR: MTBMI CANNOT BE ZERO FOR ITEM TYPE,15/7
             +X,25H IN OPERATING ENVIRONMENT, 15)
          5 FORMAT(/5X,17HINPUT ERROR: NJA(,13,1H,,11,27H) CANNOT BE GREATER T
             +HAN 3.)
\mathbb{C}
C
C
               DO 310 IXXX1=1,MXI
                     I = INO(IXXXI)
                    CK1=RTS(I)+NRTS(I)+COND(I)
                     IF(.NOT.(CK1.GT.1.000001.OR.CK1.LT..999999)) GO TO 210
                          NERRYY=NERRYY+1
                          IF (PRNTXX.NE.0) WRITE (7, 1) I
```

```
IF(PRNTXX.NE.1) WRITE(06, 1) I
 210
        CONTINUE
        IF(.NOT.(LRU(I).EQ.1)) GO TO 230
          IF(.NOT.(NHI(I).NE.0)) GO TO 220
            NERRYY=NERRYY+1
            IF(PRNTXX.NE.0) WRITE( 7, 2) 1
            IF(PRNTXX.NE.1) WRITE(06, 2) I
  220
          CONTINUE
 230
        CONTINUE
        IF(.NOT.(LRU(I).NE.1)) GO TO 250
          IF(.NOT.(NHI(1).EQ.0)) GO TO 240
            NERRYY=NERRYY+1
            IF(PRNTXX.NE.O) WRITE( 7, 3) I
            IF(PRNTXX.NE.1) WRITE(06, 3) I
          CONTINUE
  240
  250
        CONTINUE
        DO 280 NP=1,MXNP
          IF(.NOT.(NITEM(I,NP).GT.0)) GO TO 270
            IF(.NOT.(MTBMI(I,LE(NP)).EQ.0)) GO TO 260
              NERRYY=NERRYY+1
              IF(PRNTXX.NE.O) WRITE(7, 4) I, LE(NP)
              IF(PRNTXX.NE.1) WRITE(06, 4) I, LE(NP)
  260
            CONTINUE
  270
          CONTINUE
  280
        CONTINUE
        DO 300 M=1,MXM
          IF(.NOT.(NJA(1,M).GT.3)) GO TO 290
            NERRYY=NERRYY+1
            IF(PRNTXX.NE.O) WRITE( 7, 5) I,M
            IF(PRNTXX.NE.1) WRITE(06, 5) I,M
  290
          CONTINUE
  300
        CONTINUE
  310 CONTINUE
С
      RETURN
      END
```

والمحاجدات الماسيخ

SUBROUTINE RLCOMP

RL(T)=3

```
810625 084742553
С
C:
   BASELINE CHANGE
   ATU MOD FOR FLOAT
C^{**}
   SETS VALUES FOR RTS, NRTS, COND
C* DEPENDING ON THE VALUE OF RL(I)
С
     COMMON / PRNTXX/ PRNTXX
     INTEGER PRNTXX
     COMMON /BIRD/ BIRD
     COMMON /COND/ COND(150)
     COMMON /I/ I
     COMMON / INO/ INO(150)
     COMMON /LRU/ LRU(150)
     COMMON /MXI/ MXI
     COMMON /NRTS/ NRTS(150)
     REAL NRTS
     COMMON /R/ R
     INTEGER R
     COMMON /RL/ RL(150)
     INTEGER RL
     COMMON /RTS/ RTS(150)
     COMMON /WEAR - WEAR (150)
C
C
С
     Dc^{-3}60 \mid IXXX1=1,MXI
       I = IXO((IXXXI))
       IF(.NOT.(R.EQ.1)) GO TO 210
         RL(I)=1
  210
      CONTINUE
       IF(.NOT.(R.EQ.2)) GO TO 240
         IF(.NOT.(LRU(I).EQ.1)) GO TO 220
          RL( )=1
        CONTINUE
  220
         IF(.NOT.(LRU(1).NE.1)) GO TO 230
          RL(1)=2
  230
         CONTINUE
  240
       CONTINUE
       IF(.NOT.(R.EQ.3)) GO TO 270
         IF(.NOT.(LRU(I).EQ.1)) GO TO 250
          RL(1)=1
  250
         CONTINUE
         IF(.NOT.(LRU(I).NE.1)) GO TO 260
```

```
CONTINUE
260
270
      CONTINUE
      IF(.NOT.(R.EQ.4)) GO TO 280
        RL(I)=2
280
      CONTINUE
      IF(.NOT.(R.EQ.5)) GO TO 310
        IF(.NOT.(LRU(I).EQ.1)) GO TO 290
          RL(I)=2
290
        CONTINUE
        IF(.NOT.(LRU(I).NE.1)) GO TO 300
          RL(I)=3
        CONTINUE
300
      CONTINUE
310
      IF(.NOT.(R.EQ.6)) GO TO 320
        RL(I)=3
320
      CONTINUE
      IF(.NOT.(RL(I).EQ.1)) GO TO 330
        COND(I)=WEAR(I)
        RTS(I) = (1.-COND(I))/(1.+BIRD)
        NRTS(I)=RTS(I)*BIRD
330
      CONTINUE
      IF(.NOT.(RL(I).EQ.2)) GO TO 340
        COND(I) = WEAR(I)
        RTS(I)=0.
        NRTS(I)=1-COND(I)
340
      CONTINUE
      IF(.NOT.(RL(1).EQ.3)) GO TO 350
        COND(I)=1.
        RTS(I)=0.
        NRTS(I)=0.
350
     CONTINUE
360 CONTINUE
    RETURN
    END
```

C

```
SUBROUTINE OTABST
```

```
810625 084750507
C
Cariera de caractera de la constanció de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de caractera de car
CS PRINTS SUMMARY TITLE PAGE
C# ATU MOD LCK - 13 AUG 80
Contest to the first of the first to the contest of the first of the f
(
                         COMMON - PRNTXX PRNTXX
                           INTEGER PRATXX
                         COMMON FULLXX FULLXX
                          INTEGER FULLIX
                         COMMON FINC FINC
                         COMMON PIUP, PIUP
                         \mathcal{COMMON} \to R / - K
                           INTEGER R
                         COMMON | KEPR | KEPK
                          COMMON / XFR: XFR
                         TIMZ -JIMZ. ZOMMOD
                         COMMON XUO XUO
                  1 FORMATCIRI : 17///////////44X,44(1R*)/44X,1H*,42X,1H*)
                  2 FORMAT(44X, 1H*, 5X, 21HSYSTEM OPERATING LIFE, 1X, P5.2, 1X, 5HYEARS, 4X, 1
                      +H** '44X, 1H*, 42X, 1H* /44X, 1H*, 42X, 1H*)
                    E FORMAT(44X,1H*,5X,21HREPAIR LEVEL CASE RUN,2X,13,11X,1H*,44X,1H*,4
                     +2X, 1H% 44X, 1H%, 42X, 1H%)
                  → FORMAT:44X,1H*,5X,30HSENSITIVITY MULTIPLIER FACTORS,7X,1H*/44X,1H*
                      +,42K,1H%3
                  ^{5}\text{ F.SKMAT}(44\text{X.1H}\%,9\text{X.5HXUC.1X.Fl}4.3.15\text{X.1H}\%)
                  6 FORMAT(44X,1H*,9X,3HXFR,1X,F14.3,15X,1H*)
                   7 FORMAT(44X, 1H*, 9X, 4HXFPR, F14.3, 15X, 1H*).
                  8 FORMAT(44X, EH*, 9X, 4HXMIL, F14.3, 15X, 1H*)
                  9 FORMAT(44X, 1H*, 9X, 4HFINC, F14.3, 15X, 1H*, 44X, 1H*, 42X, 1H*, 44X, 44(1H*)
                     + ;
 C
 C
 C
 C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                           (F) PRNTXX.EQ.D.OR.FULLXX.EQ.O) RETURN
 C
                           WRITE( I, I)
                           WRITE( 7, 2) PIUP
                           WRITE( 7, 3) R
                           WRITE( 7, 4)
                           WRITE( 7, 5) XUC
                           WRITE( 7, b) XFR
                           WRITE( 7, 7) XFPR
                           WRITE( 7, 8) XMIL
                           WRITE( 7, 9) FINC
```

С

RETURN END

SUBROUTINE ITABIA

```
810625 084753916
C
C* PRINTS THE SYSTEM-WIDE SCALAR PARAMETERS
C* READ IN FROM THE MISC. DATA FILE :PART 1
C
     COMMON / PRNTXX/ PRNTXX
     INTEGER PRNTXX
     COMMON /FULLXX/ FULLXX
     INTEGER FULLXX
     COMMON /BAA/ BAA
     COMMON /BLR/ BLR
     COMMON /BMF/ BMF
     COMMON /DAA/ DAA
     COMMON /DLR/ DLR
     COMMON /DMF/ DMF
     COMMON /HPD2/ HPD2
     INTEGER HPD2
     COMMON /MILR/ MILR(3)
     REAL MILR
     COMMON /MRF/ MRF
     REAL MRF
     COMMON /MRO/ MRO
     REAL MRO
     COMMON / PAL1/ PAL1
     COMMON /PAL2B/ PAL2B
     COMMON /PAL2D/ PAL2D
     COMMON /PMLR/ PMLR
     COMMON /SR/ SR
     COMMON /TNLR/ TNLR
     COMMON /TORB/ TORB
     COMMON /TORD/ TORD
     COMMON /TR/ TR
     COMMON /TRAVB/ TRAVB
     COMMON /TRAVID/ TRAVID
   1 FORMAT(1H1/44X,44HINPUT TABLE 1: SYSTEM-WIDE SCALAR PARAMETERS///)
   2 FORMAT(50X,30HGOVERNMENT-PROVIDED PARAMETERS/)
   3 FORMAT(26X,13HLABOR FACTORS/)
   4 FORMAT(29X,59H BAA - MONTHLY AVAILABLE WORKING HOURS PER MAINTEN
    +ANCE
          /38X,50HMAN AT BASE LEVEL
    +F14.2
   5 FORMAT(29X,59H
                    BMF - BASE MAINTENANCE FACTOR
         ,F14.2 )
   6 FORMAT(29X,59H DAA - MONTHLY AVAILABLE WORKING HOURS PER MAINTEN
    +ANCE /38X,50HMAN AT DEPOT LEVEL
    +F14.2 )
```

```
7 FORMAT(29X,59H DMF - DEPOT MAINTENANCE FACTOR
         ,F14.2)
 8 FORMAT(29X,59H HPD2 - NUMBER OF HOURS SPENT BY A TYPE 2
         /38X,50HTRAINEE IN CLASS PER DAY
 9 FORMAT(29X,59H MRO - AVERAGE MANHOURS PER FAILURE TO COMPLETE
         /38X,50HON-EQUIPMENT MAINTENANCE RECORDS
 +F14.2
10 FORMAT(29X,59H MRF - AVERAGE MANHOURS PER FAILURE TO COMPLETE
        /38X,50HOFF-EQUIPMENT MAINTENANCE RECORDS
11 FORMAT(29X,59H
                    SR - AVERAGE MANHOURS PER FAILURE TO COMPLETE
         /38X,50HSUPPLY TRANSACTION RECORDS
 +F14.2
12 FORMAT(29X,59H TORB - TURNOVER RATE FOR BASE MAINT, PERSONNEL
          ,F14.2)
13 FORMAT(29X,59H TORD - TURNOVER RATE FOR DEPOT MAINT. PERSONNEL
         ,F14.2 )
14 FORMAT(29X,59H
                   TR - AVERAGE MANHOURS PER FAILURE TO COMPLETE
        /38X,50HTRANSPORTATION TRANSACTION FORMS
 +F14.2 )
15 FORMAT(1X/26X,11HLABOR RATES/)
16 FORMAT(29X,59H BLR - BASE MAINTENANCE LABOR RATE IN S PER HOUR
         ,F14.2 )
17 FORMAT(29X,59H DLR - DEPOT MAINTENANCE LABOR RATE IN $ PER HOUR
         F14.2
18 FORMAT(28X,55HMILR(1) - MOD/INSTALLATION LABOR RATE DURING PRODUCT
 +ION/38X,13HIN $ PER HOUR,37X,F14.2/28X,52HMILR(2) - MOD/INSTALLATI
 +ON LABOR RATE FOR FIELD MODS/38X,30HUSING DEPOT TEAM IN $ PER HOUR
  +,20X,F14.2/28X,56HMILR(3) - MOD/INSTALLATION LABOR RATE FOR MODS P
  +ERFORMED/38X,26HAT THE DEPOT IN $ PER HOUR,24X,F14.2)
19 FORMAT(29X,59H PAL1 - AVERAGE DAILY PAY & ALLOWANCE FOR A
         /38X,50HTYPE 1 TRAINEE
 +F14.2 )
20 FORMAT(29X,59H PAL2B - AVERAGE DAILY PAY & ALLOWANCE FOR A
         /38X,50HTYPE 2 TRAINEE
 +F14.2)
21 FORMAT(29X,59H PAL2D - AVERAGE DAILY PAY & ALLOWANCE FOR A
         /38X,50HTYPE 2 DEPOT TRAINEE
 +F14.2
22 FORMAT(29X,59H PMLR - PRIME MISSION EQUIP OPER LABOR RATE IN S PE
 +R HOUR ,F14.2 )
23 FORMAT(29X,59HTRAV1D - AVERAGE TRAVEL EXPENSE FOR TYPE 1 AND TYPE
 +2
         /38X,50HDEPOT TRAINEES
 +F14.2 )
24 FORMAT(29X,59H TRAVB - AVERAGE TRAVEL EXPENSE FOR TYPE 2 BASE TRAI
```

+NEES , F14.2)

```
25 FORMAT(29X,59H TNLR - TIMING NET OPERATOR LABOR RATE IN $ PER HOU
            ,F14.2 )
С
С
С
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
      WRITE( 7, 1)
      WRITE( 7, 2)
      WRITE( 7, 3)
      WRITE( 7, 4) BAA
      WRITE(7,5) BMF
      WRITE(7,6) DAA
      WRITE( 7, 7) DMF
      WRITE( 7, 8) HPD2
      WRITE(7,9) MRO
      WRITE( 7,10) MRF
      WRITE( 7,11) SR
      WRITE( 7,12) TORB
      WRITE( 7,13) TORD
      WRITE( 7,14) TR
      WRITE( 7,15)
      WRITE( 7,16) BLR
      WRITE( 7,17) DLR
      WRITE(7,18) (MILR(K1),K1=1,3)
      WRITE(7,19) PAL1
      WRITE(7,20) PAL2B
      WRITE( 7,21) PAL2D
      WRITE( 7,22) PMLR
      WRITE( 7,23) TRAV1D
      WRITE( 7,24) TRAVB
      WRITE( 7,25) TNLR
С
      RETURN
      END
```

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С
                                                                                                                           810625 084803848
Constitute test established and the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of the destruction of 
C* PRINTS THE SYSTEM-WIDE SCALAR PARAMETERS
C* READ IN FROM THE MISC. DATA FILE : PART 2
C
             COMMON /PRNTXX, PRNTXX
             INTEGER PRNTXX
            COMMON /FULLXX - FULLXX
             INTEGER FULLXX
             COMMON /ACPP: ACPP
             COMMON / BRCT / BRCT
             COMMON /CFG/ CFG(3)
             COMMON /CPD2: CPD2
             COMMON /CPPC/ CPPC
             COMMON /CPPD/ CPPD(3)
             COMMON /CRCT/ CRCT
             COMMON /DAD/ DAD
             COMMON /DRCT/ DRCT(3)
             COMMON / IMC/ IMC
             REAL IMC
             COMMON /OST/ OST(3)
             COMMON /OSTC/ OSTC
             COMMON /RCPP/ RCPP
             COMMON /RMC/ RMC
             COMMON /SA/ SA
            COMMON /UCPP/ UCPP
         1 FORMAT(1H1/44X,44H1NPUT TABLE 1: SYSTEM-WIDE SCALAR PARAMETERS/61X
           +,11H(CONTINUED)///)
         2 FORMAT(1X/26X,14HPIPELINE TIMES/)
         3 FORMAT (29X, 59H BRCT - BASE REPAIR CYCLE TIME IN MONTHS
                             .F15.3 )
         4 FORMAT(29X,59H CRCT - TIME FOR FAILURE AT SATELLITE BASE UNTIL RE
          +PAIR /38X,50HAT CIME BASE IN MONTHS
           +F15 3 1
         5 FORMAT(29X,59H DAD - TIME FROM FAILURE REMOVAL AT DEPOT UNTIL RE
                         /38X,50HAT DEPOT IN MONTHS
           +PAIR
           +F15.3
         6 FORMAT(28X,54HDRCT(1) - TIME FROM FAILURE AT CONUS BASE UNTIL REPA
           +IR/38X,18HAT DEPOT IN MONTHS,32X,F15.3/28X,56HDRCT(2) - TIME FROM
           +FAILURE AT PACIFIC BASE UNTIL REPAIR/38X, 18HAT DEPOT IN MONTHS, 32X
           +,F15.3/28X,55HDRCT(3) - TIME FROM FAILURE AT EUROPE BASE UNTIL REP
           +AIR/38X,18HAT DEPOT IN MONTHS,32X,F15.3/28X,52H OST(1 - ORDER AND
           + SHIPPING TIME FROM CONUS BASE TO/38X,15HDEPOT IN MONTHS,35X,F15.3
           +/28X,54H OST(2) - ORDER AND SHIPPING TIME FROM PACIFIC BASE TO/38X
           +,15HDEPOT IN MONTHS,35X,F15.3/28X,53H OST(3) - ORDER AND SHIPPING
```

```
+TIME FROM EUROPE BASE TO/38X,15HDEPOT IN MONTHS,35X,F15.3/28X,55H
     + OSTC - ORDER AND SHIPPING TIME FROM A SATELLITE BASE/38X,26HTO 1
     +TS CIME BASE IN MONTHS, 24X, F15.3/)
    7 FORMAT(26X,17HUNIT COST FACTORS/)
    8 FORMAT(29X,59H ACPP - ACQUISTION COST PER PAGE FOR ORIGINAL
             /38X, SOHNEGATIVES OF TECH. DATA
    +F15.3 )
    9 FORMAT(28X,53H CFG(1) - COST OF FUEL IN $ PER GALLON AT CONUS BASE
     +S,7X,F15.3/28X,55H CFG(2) - COST OF FUEL IN $ PER GALLON AT PACIFI
     +C BASES,5X,F1505 28X,54H CFG(3) - COST OF FUEL IN $ PER GALLON AT
     +EUROPE BASES, eX, F15.3/28X, 52H CPD2 - COST PER CLASS PER DAY FOR
     +TYPE 2 TRAINING, 8X, F15.3/28X, 55H CPPC - COST OF PACKING AND SHIP
    +PING FROM A SATELLITE/38E,47HBASE TO ITS CIMF BASE IN $ PER NET WE
     +IGHT POUND, 3E, F15.5 28N, 54HCPPD(1) - COST OF PACKING AND SHIPPING
     +FROM CONUS BASE, 38X, 34HTO DEPOT IN S PER NET WEIGHT POUND, 16X, F15.
     +3/28X,56HCPPD(2) - COST OF PACKING AND SHIPPING FROM PACIFIC BASE;
     +38X,34HTO DEPOT IN $ PER NET WEIGHT POUND,16X,F15.3/28X,55HCPPD(3)
     + - COST OF PACKING AND SHIPPING FROM EUROPE BASE/38X,34HTO DEPOT 1
     +N S PER NET WEIGHT POUND, 16X, F15.3)
   10 FORMAT(29X,59H RCPP - REPRODUCTION COST PER COPY PER PAGE OF
            /38X,50HTECH. DATA
     +F15.3)
   11 FORMAT(29X,59H | IMC - INITIAL DEPOT INVENTORY MANAGEMENT COST PER
            /38X,50HPART IN $
     + NEW
     +F15.3 )
                     RMC - RECURRING DEPOT INVENTORY MANAGEMENT COST P
   12 FORMAT(29X,59H
     +ER NEW /58X,50HPART IN $ PER YEAR
     +F15.3 )
   13 FORMAT(29X,59H
                        SA - BASE-LEVEL INVENTORY MANAGEMENT COST PER NE
     +W FART /38X, SOHIN & PER YEAR
     +F15.3
   14 FORMAT(29X,59H UCPP - UPKEEP COST PER YEAR PER DISTINCT PAGE OF
            /38X,50HTECH. DATA
     +F15.3)
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
      IF (PRNTXX.EQ.0.0R.FULLXX.EQ.0) RETURN
      WRITE( 7, 1)
      WRITE( 7, 2)
      WRITE( 7, 3) BRCT
      WRITE( 7, 4) CRCT
      WRITE( 7, 5) DAD
      WRITE(-7, -6) (DECT(K2), K2=1, 3), (OST(K3), K3=1, 3), OSTC
      WRITE( 7, 7)
```

CC C

С

```
WRITE( 7, 8) ACPP
WRITE( 7, 9) (CFG(K4), K4=1,3), CPD2, CPPC, (CPPD(K5), K5=1,3)
WRITE( 7,10) RCPP
WRITE( 7,11) IMC
WRITE( 7,12) RMC
WRITE( 7,13) SA
WRITE( 7,14) UCPP

C

RETURN
END
```

C	810625 084811109	
3*	ATU MOD LCR	
C*	PRINTS THE SYSTEM-WIDE SCALAR PARAMETERS	
C#		
Jirir	<mark>ste tetetetetetetetetetetetetetetetetete</mark>	
3		
	COMMON / PRNTXX/ PRNTXX	
	INTEGER PRNTXX	
	COMMON : PULLEXX / FULLXX	
	INTEGER FULLXX	
	COMMON /BDATA/ BDATA	
	INTEGER BDATA	
	COMMON (BF) BF	
	COMMON _ BIRD / BIRD	
	COMMON , CPD1 CPD1	
	COMMON DDATA/ DDATA	
	INTEGER DDATA	
	COMMON FSEDC, FSEDC	
	COMMON /HPD1/ HPD1	
	INTEGER HPD1	
	COMMON KFAC (KFAC (4)	
	REAL KFAC	
	COMMON /MUSE/ MUSE	
	REAL MUSE	
	COMMON /NRUC/ NRUC	
	REAL NRUC	
	COMMON /PIUP/ PIUP	
	COMMON /QTYP1/ QTYP1	
	INTEGER QTYP1	
	COMMON /QTYP2B/ QTYP2B	
	INTEGER QTYP2B	
	COMMON /QTYP2D/ QTYP2D	
	INTEGER (QTYP2I)	
	COMMON /R/ R	
	INTEGER R	
	COMMON /SPC1/ SPC1	
	INTEGER SPC1	
	COMMON /SPC2/ SPC2	
	INTEGER SPC2	
	COMMON /TEFM/ TEFM	
	COMMON /TYP2TF/ TYP2TF	
	COMMON /XFPR/ XFPR	
	COMMON /XFR/ XFR	
	COMMON /XMIL/ XMIL	
	COMMON /XUC/ XUC	

```
1 FORMAT(1H1/44X,44HINPUT TABLE 1: SYSTEM-WIDE SCALAR PARAMETERS/61X +,11H(CONTINUED)///)
```

- 2 FORMAT(1X/26X,21HMISCELLANEOUS FACTORS/)
- 3 FORMAT(28X,41H BF COEFFICIENT IN SPARING FUNCTION, 19X, F14.2)
- 4 FORMAT(29X,59H BIRD FRACTION OF BASE-REPAIR-INTENDED FAILURES + /38X,50HREQUIRING DEPOT REPAIR +F14.2)
- 5 FORMAT(28X,54HKFAC(1) FAILURE RATE EXPERIENCE FACTOR FOR AIRBORN +E-/38X,19HFIGHTER ENVIRONMENT,31X,F14.2/28X,54HKFAC(2) FAILURE R +ATE EXPERIENCE FACTOR FOR AIRBORNE-/38X,17HCARGO ENVIRONMENT,33X,F +14.2/28X,52HKFAC(3) FAILURE RATE EXPERIENCE FACTOR FOR GROUND-/3 +8X,31HFIXED/TRANSPORTABLE ENVIRONMENT,19X,F14.2/28X,52HKFAC(4) F +AILURE RATE EXPERIENCE FACTOR FOR GROUND-/38X,18HMOBILE ENVIRONMEN +T,32X,F14.2)
- 6 FORMAT(29X,59H MUSE MINIMUM FRACTIONAL UTILIZATION FOR SENSITIV +ITY /38X,50HCALGULATIONS ON SUPPORT EQUIPMENT COSTS +F14.2)
- 7 FORMAT(29X,59H NRUC NUMBER OF YEARS OF REPLACEMENT SPAKES TO BE + /38X,50HPROVIDED UNDER THE ATU PRODUCTION CONTRACT(S) , +F14.2)
- 8 FORMAT(29X,59H PIUP NUMBER OF SYSTEM OPERATING YEARS + ,F14.2)
- 9 FORMAT(29X,59H QTYP1 NUMBER OF TYPE 1 TRAINEES
 - + ,114)
- 10 FORMAT(29X,59HQTYP2B NUMBER OF TYPE 2 BASE TRAINEES + ,114)
- 11 FORMAT(29X,59HQTYP2D NUMBER OF TYPE 2 DEPOT TRAINEES + ,114)
- 12 FORMAT(29X,59H SPC2 MAXIMUM NUMBER OF TYPE 2 TRAINEES PER CLASS + ,114)
- 13 FORMAT(29X,59HTYP2TF RATIO OF TYPE 2 TRAINING TIME TO TYPE 1 + 138X,50HTRAINING TIME +F14.2 1
- 14 FORMAT(29X,59H XFPR FALSE PULL RATE SENSITIVITY MUTIPLIER FACTO +R ,F14.2)
- 15 FORMAT (29X, 59H XFR FAILURE RATE STULTIVITY MULTIPLIER FACTOR + .P14.2)
- 16 FORMAT(29X,59H XMIL MCD/1 LAL -467...5 SENSITIVITY MULTIPLIER FA +CTOR ,F14.2)
- 17 FORMAT(29X,59H XCC UNIT COST SENSITIVITY MULTIPLIER FACTOR + ,F14.2)
- 18 FORMAT(1H1/44X,44HINPUT TABLE 1: SYSTEM-WIDE SCALAR PARAMETERS/61X +,11H(CONTINUED)///)
- 19 FORMATCIX, 50X, 34HCONTRACTOR DETERMINED PARAMETERS//)
- 20 FORMAT(29X,59H BDATA NUMBER OF TECH. DATA PAGES FOR BASE MAINT: +AND /38X,50HNOT ITEM OR SE SPECIFIC +114)

```
21 FORMAT(29X,59H CPD1 - COST PER CLASS PER DAY FOR TYPE 1 TRAINING
     +
              F14.2 )
   22 FORMAT(29X,59H DDATA - NUMBER OF TECH. DATA PAGES FOR DEPOT MAINT.
              /38X,50HAND NOT ITEM OR SE SPECIFIC
     +114
   23 FORMAT(29X,59H FSEDC - TOTAL COST OF FULL SCALE ENGINEERING
     + .38X,50HDEVELOPMENT PROGRAM
     +F14.2 )
   24 FORMAT(29X,59H HPD1 - NUMBER OF CLASS HOURS PER DAY FOR A TYPE 1
               738X,50HTRAINING CLASS
     +114
   25 FURMAT(29X,59H)
                            R - REPAIR LEVEL CASE RUN NUMBER
     + .114 )
   26 FORMAT(29X,59H SPC1 - MAXIMUM NUMBER OF TYPE 1 TRAINEES PER CLASS
     + ,II4 )
   27 FORMAT(29X,59H TEFM - COST OF TRAINING EQUIPMENT, FACILITIES AND
     + /38X,50HMANUALS
     +F14.2 )
C
C
С
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
       IF (PRNTXX.EQ.0.OR.FULLXX.EQ.0) RETURN
C
      WRITE( 7, 1)
       WRITE( 7, 2)
       WKITEL 7, 3: BF
       WRITE: 7, 4: FIRD
       WKITE(-7, -5) \in KFAC(K2), K2=1, 4)
      WKITE: J, 6) MESE
WRITE: J, J: NRUC
WKITE: J, A: FIUP
WRITE: J, J: TYP1
       WRITE: 1,10: CTYP2B
      WRITE: 7,10: GTYP2B
WRITE: 7,11: SP12
WRITE: 7,11: SP12
WRITE: 7,11: TYP2TF
WRITE: 7,11: EFPR
WRITE: 7,11: EFR
WRITE: 7,11: EFR
WRITE: 7,11: EFR
WRITE: 7,17: EFR
WRITE: 7,17: EFR
      WRITE: 7,19)
WRITE: 1,20: FDATA
WRITE: 7,21: CPD1
       WRITE 7,22 - DDATA
       WRITE: 7,23: ESEDO
```

WRITE(7,24) HPD1 WRITE(7,25) R WRITE(7,26) SPC1 WRITE(7,27) TEFM RETURN END

С

```
810625 084816178
C
C# ATU MOD LCR
C# PRINTS BASE CONFIGURATION DATA
COMMON /PRNTXX PRNTXX
                     INTEGER PRNTXX
                    COMMON FULLXX' FULLXX
                     INTEGER FULLXX
                    COMMON BNOUN BNOUN(10,16)
                    COMMON FPLAT BPLAT(10)
                     INTEGER BPLAT
                     COMMON FSP RSP(10)
                     INTEGER FSP
                     COMMON BTYPE BTYPE (10)
                     INTEGER PTYPE
                     COMMON LESS IN COMMON
                     COMMON MINS MENS
                     COMMON NBC NBC(IC)
                     REAL NBC
                     COMMON NHB NHF LES
                    COMMON NS NS
                    COMMON TINE TIRE (10)
               1 FORM TOTAL 28%, 19HINPUT TABLE 2: BASE CONFIGURATION DATA
                 +HNEXT, 6X, 3HNO., 5X, 4HBASE, 6X, 4HBASE / 2X, 4HBASE, 9X, 4HBASE, 10X, 6HNO. (
                  +F,3X,7HLOC. OF,4X,4HBASE,4X,6HHIGHER,4X,5HUNDER,4X,5HFLAT+,3X,7HSU
                 + \texttt{PPORT}/2\texttt{X}, 5\texttt{HINDEX}, 8\texttt{X}, 4\texttt{HNAME}, 10\texttt{X}, 5\texttt{HBASES}, 5\texttt{X}, 4\texttt{HBASE}, 6\texttt{X}, 4\texttt{HTYPE}, 5\texttt{X}, 4\texttt{HBASE}, 6\texttt{X}, 4\texttt{HTYPE}, 5\texttt{X}, 4\texttt{HBASE}, 6\texttt{X}, 4\texttt{X}, 4\texttt{HBASE}, 6\texttt{X}, 4\texttt{X}, 4\texttt
                  +8E, 6X, 4RC1MC, 4X, 5HC0RMS, 2X, 10HPH1L0S0PHY-3X, 4H(XS), 7X, 7H(FX/N), 3X
                  +, 5H(TNP), 5N, 4H(LO), 5X, 7H(BTYPE), 3X, 5H(NHB), 4X, 5H(NBC), 5X, 7H(FFLAT
                  +,3X,5H(BSP) 1
               2 FORMATCSX, 12,4X, 16A1,4X, F4.0,7X, 12,8X, 12,7X, 12,6X, F4.1,6X, 12,8X, 12
(
С
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REGUESTED
                      JE (PRNTXX.EQ.) 198. FULLXX.EQ.O) KETURN
C
                     WRITE( 7, 1)
                     DO 210 NS=1,MXNS
                           WRITE( 7, 2) NS, (BNDUN(NS, II), II=1, 16), TNF(NS), LO(NS), BTYPE NS),
                               NHB(NS), NBC(NS), BPLAT(NS), BSP(NS)
        2.10 CONTINUE
()
                      RETURN
                     END
```

```
C
                                                                                                                              810625 084821760
C# ATU MOD LCR
C* PRINTS PLATFORM OPERATION DATA FILE
Catalanta de describirar de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la catalanta de la
             COMMON / PRNTXX / PRNTXX
              INTEGER PRNTXX
             COMMON / FULLXX/ FULLXX
              INTEGER FULLXX
             COMMON /AMPM/ AMPM(5,3)
              COMMON /APFH/ APFH(5,3)
              COMMON /FGH/ FGH(5)
             COMMON (LE/ LE(5)
             COMMON /M/ M
             COMMON /MMPD/ MMPD(5,3)
             REAL MMPD
             COMMON /MMPM/ MMPM(5)
             REAL MMPM
             COMMON /MXNP/ MXNP
             COMMON /NP/ NP
             COMMON /PNOUN PNOUN(5,12)
             COMMON /TFAC/ TFAC(5)
             COMMON /THRS/ THRS(5)
          1 FORMAT(1H1/44X,39HINPUT TABLE 3: PLATFORM OPERATION DATA///2X,5HP
           +LAT-,16X,3HEN-,2X,20H*OPERATING HOURS IN*,6HUTILI-,1X,5HACTI-,1X,2
           +0H*MISSIONS PER MONTH*, 4X, 11HOTHER HOURS, 4X, 1H*, 6HTHRUST, 2X, 7HGALL
           +ONS/2X,4HFORM,3X,8HPLATFORM,6X,6HVIRON*,18(1H-),7H*ZATION,1X,7HVAT
           +10N*, 18(1H-), 1H*, 19(1H-), 1H*, 1X, 2HIX, 6X, 3HPER/2X, 5HINDEX, 2X, 12hNOM
           +ENGLATURE, 2X, 4HMENT, 1X, 20H#CONUS PACIF EUROPE#, 6HFACTOR, 1X, 4HTIME,
           +2X,20H*CONUS PACIF EUROPE*,20H CONUS PACIF EUROPE*,6HPOUNDS,2X,7HO
           +PER HR (2X,4H(NP),4X,7H(PNOUN),6X,4H(LE),9X,6H(APFH),6X,6H(TFAC),IX
            +,6H(MMPM),8X,6H(AMPM),13X,6H(MMPD),8X,6H(THRS),3X,5H(FGH);)
          2 FORMAT(2X, 13, 3X, 12A1, 3X, 12, 3X, F5.0, 1X, F5.0, 1X, F5.0, 4X, F4.2, 2X, F4.1
           +,3X,F5.1,1X,F5.1,1X,F5.1,1X,F6.1,1X,F6.1,1X,F6.1,1X,F8.0,1X,F6.0)
C
C
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
              IF (FRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
             WRITE( 7, 1)
             DO 210 NP=1, MXNP
                  WRITE( 7, 2) NP, (PNOUN(NP,K1),K1=1,12), LE(NP), (APPH(NP,M),M=1,
                      3),TFAC(NP),MMPM(NP),(AMPM(NP,M),M=1,3),(MMPD(NP,M),M=1,3),
                       THRS(NP), FGH(NP)
```

210 CONTINUE C RETURN END

```
С
                                                    810625 084824136
ATU MOD LCR
   PRINTS PLATFORM TEFMINAL COST AND INITIAL
  MOD/INSTALLATION DATA FILE
COMMON (PRNTXX) FRNTXX
     INTEGER PRNTXX
     COMMON /FULLXX FULLXX
     INTEGER FULLXX
     COMMON /DRAG/ DRAG(5)
     COMMON /FR/ FR(3,5)
     COMMON /INTNR/ INTNR(5)
     REAL INTER
     COMMON /INTR/ INTR(5)
     REAL INTR
     COMMON /K/ K(5)
     REAL K
     COMMON /M/ M
     COMMON /MXNP/ MXNP
     COMMON /NAE/ NAE(5)
     REAL NAE
     COMMON /NP/ NP
     COMMON /NRMI/ NRMI(5)
     REAL NRMI
     COMMON /NTRMP/ NTRMP(5)
     REAL NTRMP
     COMMON /PDIV/ PDIV(5)
   1 FORMAT(1H1/27X,76HINPUT TABLE 4: PLATFORM TERMINAL DATA & NON-REC
    +URRING MOD/INSTALLATION DATA//43X,23HIN THOUSANDS OF DOLLARS///10X
    +,3HNO..43X,5HPLAT-,21X,3HNO.,5X,4HLBS.,4X,6HTHRUST/2X,5HPLAT-,3X,3
    +HPME, 7X, 5HOTHER, 32X, 4HFORM, 3X, 18H*FRACTION MODS IN*, 1X, 5HADDED, 3X,
    +4HDRAG,4X,5H-FUEL/2X,4HFORM,4X,4HTER-,6X,5HPROD.,5X,6HRECUR.,5X,10
    +HNON-RECUR., 4X, 6HDIVER-, 1X, 1H*, 16(1H-), 1H*, 1X, 5HANTEN, 3X, 3HPER, 5X,
    +6HCNSMPT/2X,5HINDEX,3X,6HMINALS,4X,5HCOSTS,6X,5HINTEG,6X,10HMOD/I
    +COST,4X,4HS1TY,3X,18H*PROD_FIELD_DEPOT*,1X,3HNAS,5X,5HANTEN,3X,6HF
    +ACTOR/2X,4H(NP),4X,7H(NTRMP),3X,7H(INTNR),4X,6H(INTR),7X,6H(NRMI),
    +6X,6H(PDIV),8X,4H(FR),8X,5H(NAE),3X,6H(DRAG),3X,3H(K)/)
   2 FORMAT(2X,13,5X,F5.2,3X,F10.3,1X,F9.3,2X,F10.3,5X,F5.2,3X,2(F4.2,2
    +X), F4.2, 3X, F5.2, 3X, F5.1, 4X, F5.2)
С
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
```

IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN

```
C
                                                                                                                                    810625 084830154
Considerate and control and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the electrical and the 
C* PRINTS PLATFORM RECURRING MOD/INSTALLATION LABOR HOURS BY MODE AND *
C* DATA FILE
COMMON / PRNTXX/ PRNTXX
              INTEGER PRNTXX
              COMMON /FULLXX/ FULLXX
              INTEGER FULLXX
              COMMON /AKIT/ AKIT(4,5)
              COMMON /IA/ IA
              COMMON /M/ M
              COMMON /MIFIX/ MIFIX(3,5)
              REAL MIFIX
              COMMON /MIMH/ MIMH(4,3,5)
              REAL MIMH
              COMMON /MXNP/ MXNP
              COMMON /NP/ NP
          1 FORMAT(1H1,35X,56HINPUT TABLE 5: PLATFORM RECURRING MOD/INSTALLAT
            +ION DATA///57X,1H*,13X,45HMOD/INSTALLATION LABOR HOURS BY MODE AND
            + AREA, 12X, 1H*/2X, 5HPLAT-, 2X, 19H*FIXED MOD/I COST *, 7X, 15HAKIT EQUI
            +P COST,7X,1H*,70(1H-),1H*/2X,4HFORM,3X,1H*,17(1H-),1H*,2X,25(1H-),
            +2X, 1H#, 5X, 12H##PROD MOD##, 5X, 1H#, 5X, 13H##FIELD MOD##, 5X, 1H#, 6X, 13H
            +**DEPOT MOD**,4X,1H*/2X,5HINDEX,2X,5H*PROD,1X,5HF1ELD,1X,5HDEPOT,1
            +X,1H*,2X,5HANTNA,1X,6HELCBOX,1X,6HCNTLHD,1X,5HCABLE,2X,5H*ANTN,2X,
            +4HELBX,2X,4HCTLH,2X,10HCBL * ANTN,2X,4HELBX,2X,4HCTLH,2X,10HCBL *
            +ANTN, 2X, 4HELBX, 2X, 4HCTLH, 2X, 3HCBL, 1X, 1H*/2X, 4H(NP), 7X, 8H(MIFIX)*, 1
            +9X,6H(AKIT),44X,6H(MIMH)/)
          2 FORMAT(3X,13,2X,7(F6.0,1X),12F6.0)
          3 FORMAT(//2X,25H* IN THOUSANDS OF DOLLARS)
\mathbb{C}
C
С
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
              IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
              WRITE( 7, 1)
              DO 210 NP=1,MXNP
                   WRITE (7, 2) NP, (MIFIX(M,NP), M=1,3), (AKIT(IA,NP), IA=1,4),
                      ((MIMH(IA,M,NP),IA=1,4),M=1,3)
     210 CONTINUE
              WRITE( 7, 3)
\mathbb{C}
              RETURN
              END
```

```
С
                                                                                                                                                                          810625 084835801
C* PRINTS PLATFORM DEPLOYMENT AT BASES
C* DATA FILE
Contribute the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of trade of the trade of the trade of the trade of trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of tr
                  COMMON /PRNTXX/ PRNTXX
                  INTEGER PRNTXX
                  COMMON /FULLXX/ FULLXX
                   INTEGER FULLXX
                  COMMON /MXNP/ MXNP
                  COMMON /NP/ NP
                  COMMON /NPLT/ NPLT(5,10)
                  REAL NPLT
                  COMMON /NS/ NS
             1 FORMAT(1H1,8X,58HINPUT TABLE 6: PLATFORM DEPLOYMENT AT BASES - NP
               +LT(NP,NS)//1X,5HPLAT-/1X,4HFORM,3X,74HAVERAGE NUMBER OF PLATFORMS
               +OF GIVEN TYPE AT EACH BASE WITHIN GROUPS BELOW/1X,5HINDEX,2X,122(1
               +H-)/1X,4H(NP),16X,1H1,5X,1H2,5X,1H3,5X,1H4,5X,1H5,5X,1H6,5X,1H7,5X
               +,1H8,5X,1H9,4X,2H10,4X,2H11,4X,2H12,4X,2H13,4X,2H14,4X,2H15,4X,2H1
               +6/)
            2 FORMAT(1X, I3, 14X, 10(F5.2, 1X))
С
С
С
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                  IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
                  WRITE( 7, 1)
                  DO 210 NP=1,MXNP
                       WRITE (7, 2) NP, (NPLT(NP, NS), NS=1, 10)
      210 CONTINUE
С
                  RETURN
                  END
```

```
С
                                                                                                                                                                                                                                 810625 084840218
Constanting the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
C# ATU MOD LCR
               PRINTS SUPPORT EQUIPMENT DATA
Considerate desta de sus esta desta de sus esta desta de sus esta 
С
                        COMMON /PRNTXX/ PRNTXX
                         INTEGER PRNTXX
                         COMMON /FULLXX/ FULLXX
                         INTEGER FULLXX
                        COMMON /CSE/ CSE(120)
                        COMMON /DATAS/ DATAS(120)
                         INTEGER DATAS
                        COMMON /L/ L
                        COMMON /MSE/ MSE(120)
                         REAL MSE
                         COMMON /MXL/ MXL
                         COMMON /SEDEV/ SEDEV(120)
                         COMMON /SEINO/ SEINO(120)
                         INTEGER SEINO
                         COMMON /SENOUN/ SENOUN(120,20)
                        COMMON /SENUM/ SENUM(120,12)
                        COMMON /SETYPE/ SETYPE(120)
                         INTEGER SETYPE
                 1 FORMAT(1H1,44X,38HINPUT TABLE 7: SUPPORT EQUIPMENT DATA///58X,8HF
                    +RACTION, 5X, 14HCOM.ON-SITE(1), 4X, 9HNUMBER OF, 5X, 2HSE/3X, 2HSE, 42X, 7H
                    +SE UNIT, 4X, 9HUNIT COST, 4X, 14HCOM. PROCUR. (2), 4X, 10HTECH ORDER, 2X, 6H
                    +DEVMNT/2X,5HINDEX,4X,15HSE NOMENCLATURE,7X,11HSE PART NO.,5X,4HCOS
                    +T,4X,11HTO MAINTAIN,3X,11HPECULIAR(3),8X,5HPAGES,8X,4HCOST/3X,3H(L
                    +),9X,8H(SENOUN),11X,7H(SENUM),7X,5H(CSE),7X,5H(MSE),7X,8H(SETYPE),
                    +9X,7H(DATAS),5X,7H(SEDEV)/)
                 2 FORMAT(3X,13,3X,20A1,1X,12A1,4X,F7.0,7X,F5.3,10X,12,14X,13,4X,F8.0
                    +)
C
C
\mathbf{C}
 C....ONLY FRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                         IF (PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
\mathbf{C}
                        WRITE( 7, 1)
                        DO 210 IXXX1=1,MXL
                                L=SEINO(IXXXI)
                                WRITE( 7, 2) L, (SENOUN(L, 11), 11=1,20), (SENUM(L, 12), 12=1,12),
                                       CSE(L),MSE(L),SETYPE(L),DATAS(L),SEDEV(L)
        210 CONTINUE
\mathbf{C}
```

RETURN END

```
C
                                                                                                                                     810625 084851139
Consider the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first
C* ATU MOD LCR
C* PRINTS ITEM EQUIPMENT DATA
C
              COMMON / PRNTXX/ PRNTXX
              INTEGER PRNTXX
              COMMON /FULLXX/ FULLXX
              INTEGER FULLXX
              COMMON /GFE/ GFE(150)
               INTEGER GFE
              COMMON / I / I
              COMMON /INO/ INO(150)
              COMMON /INOUN/ INOUN(150,24)
              REAL INOUN
              COMMON /INTEG/ INTEG(150)
              REAL INTEG
              COMMON /LFAC/ LFAC(150)
              REAL LFAC
              COMMON /LRU/ LRU(150)
              COMMON /MXI/ MXI
              COMMON /NHI/ NHI(150)
              COMMON /PA/ PA(150)
              COMMON /PTNUM/ PTNUM(150,12)
              COMMON /RM/ RM(150)
              COMMON /UP/ UP(150)
              COMMON /WT/ WT(150)
          1 FORMAT(1H1/48X, 36HINPUT TABLE 8A: ITEM EQUIPMENT DATA)
          2 FORMAT(61X, 11H(CONTINUED))
          3 FORMAT(//62X,6HLRU(1),3X,4HNEXT,5X,3HGFE,5X,5HINTE-,5X,4HITEM,5X,6
            +HREPAIR, 14X, 5HPIECE/2X, 4HITEM, 47X, 5HLEARN, 6X, 2HOR, 4X, 6HHIGHER, 4X, 5
            +HIND1-,3X,7HGRATION,3X,4HUNIT,4X,9HMATERIALS,4X,4HITEM,4X,4HPART/2
            +X,5HINDEX,9X,12HNOMENCLATURE,9X,11HPART NUMBER,6X,4HRATE,4X,6HSRU(
            +0),3X,4HITEM,5X,5HCATOR,5X,5HITEMS,4X,4HCOST,5X,6HFACTOR,5X,6HWEIG
            +HT,2X,5HCOUNT /3X,3H(1),12X,7H(INOUN),14X,7H(PTNUM),7X,6H(LFAC),3X
            +,5H(LRU),4X,5H(NH1),4X,5H(GFE),3X,7H(INTEG),3X,4H(UP),6X,4H(RM),7X
            +,4H(WT),4X,4H(PA)/)
          4 FORMAT(4X,13,3X,24A1,1X,12A1,6X,F4.2,6X,12,6X,13,7X,12,7X,12,4X,F7
            +.0.6X, F4.3.5X, F6.2.3X, F5.2
С
C
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
               IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
```

```
IPAGE=40
      IFLAG=1
      DO 230 IXXX1=1,MXI
        I=INO(IXXX1)
        IF(.NOT.(IPAGE.EQ.40)) GO TO 220
          WRITE( 7, 1)
          IPAGE=1
          IF(.NOT.(IFLAG.NE.1)) GO TO 210
            WRITE( 7, 2)
  210
          CONTINUE
          WRITE( 7, 3)
  220
        CONTINUE
        WRITE( 7, 4) I, (INOUN(I, K1), K1=1, 24), (PTNUM(I, K2), K2=1, 12),
          LFAC(I), LRU(I), NHI(I), GFE(I), INTEG(I), UP(I), RM(I), WT(I), PA(I)
        IFLAG=0
        IPAGE=IPAGE+1
  230 CONTINUE
С
      RETURN
      END
```

 \mathbf{C}

```
C
                                                                                                                                810625 084913094
PRINTS ITEM MAINTENANCE DATA
Contribution of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of th
C
              COMMON / PRNTXX/ PRNTXX
              INTEGER PRNTXX
              COMMON /FULLXX/ FULLXX
              INTEGER FULLXX
              COMMON / BCMH / BCMH (150)
              COMMON /BMH/ BMH(150)
              COMMON /COND/ COND(150)
              COMMON /DMH/ DMH(150)
              COMMON /FPR/ FPR(150)
              COMMON /I/ I
              COMMON /INO/ INO(150)
              COMMON / IPCF / IPCF (150)
              REAL IPCF
              COMMON /MTBMI/ MTBMI(150,4)
              REAL MTBMI
              COMMON /MXI/ MXI
              COMMON /NRTS/ NRTS(150)
              REAL NRTS
             COMMON /RIP/ RIP(150)
             COMMON / RL/ RL(150)
              INTEGER RL
             COMMON /RMH/ RMH: 150)
             COMMON /RTS/ RTS(150)
         1 FORMAT(1H1/47X,39H INPUT TABLE 9A: ITEM MAINTENANCE DATA)
         2 FORMAT(61X,11H(CONTINUED))
         3 FORMAT(//58X,&HFRACTION,10X,19H
                                                                                                                                ,1X,7HFAILURE,1X
           +,4HBASE,1X,2HLV/6X,1H#,5X,34HMEAN TIME BETWEEN MAINT. INCIDENTS,5X
            +,6H*FALSE,1X,8HFALLURES,1X,8HCOST PER,2X,19HFRACTION FAILURES ,6H
           +REMOVE, 2X, 5HBENCH, 3X, 7HBASE LV, 1X, 5HDEPOT/1X, 6HITEM *, 1X, 43(1H-), 5
           +H*PULL, 2X, 8HREPAIRED, 1X, 8HIN PLACE, 2X, 18H
                                                                                                                REPAIRED AT
                                                                                                                                                    , IX, 7HR
           +EPLACE, IX, 5HCHECK, 3N, 6HREPAIR, 2N, 6HREPAIR, 1N, 4HR, L. / IN, 5H1NDEN, 13H
           +#AIR-FIGHTER*, 10HAIR-CARGO*, 11HGRND-FIXED*, 12HGRND-MOBILE*, 4HRATE,
           +2X,8HIN PLACE,2X,6HREPAIR,2X,20H BASE DEPOT COND ,7HMAN HRS,1X,
           +7HMAN HRS, 1X, 7HMAN HRS, 1X, 6HMAN HR, 1X, 4HCODE/2X, 3H(I), 3X, 8H(MTBMI1
           +),3X,8H(MTBM12),3X,8H(MTBM13),3X,8H(MTBM14),3X,5H(FPR),2X,5H(RIP),
           +4X,6H(IPCF),2X,20H(RTS) (NRTS) (COND) ,2X,5H(RMH),2X,6H(BCMH),3X,5
           +H(BMH), 3X, 5H(DMH), 1X, 4H(RL)/)
         4 FORMAT(1X, 13, 3X, F9, 0, 3(2X, F9, 0), 3X, F4, 3, 4X, F4, 2, 3X, F6, 2, 3X, F5, 3, 2X
            +, F5.3, 2X, F5.3, 2X, 3(F5.2, 3X), F5.2, 1X, 14)
C
```

```
С
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
С
      IPAGE=40
      IFLAG=1
      DO 230 IXXXI≈1,MXI
        I=INO(IXXXI)
        IF(.NOT.(IPAGE.EQ.40)) GO TO 220
          WRITE( 7, 1)
          IPAGE=1
          IF(.NOT.(IFLAG.NE.1)) GO TO 210
            WRITE( 7, 2)
  210
          CONTINUE
          WRITE( 7, 3)
  220
        CONTINUE
        WRITE (7, 4) I, (MTBMI(I,K1),K1=1,4), FPR(I), RIP(I), IPCF(I),
          RTS(I), NRTS(I), COND(I), RMH(I), BCMH(I), BMH(I), DMH(I), RL(I)
        IFLAG=0
        IPAGE=IPAGE+1
  230 CONTINUE
С
      RETURN
      END
```

WRITE(7, 3)

CONTINUE

 220°

```
WRITE( 7, 4) I,DATAD(I),DATAB(I),TIME1(I),UCTDEV(I)
IFLAG=0
IPAGE=1PAGE+1
230 CONTINUE
C
RETURN
END
```

```
SUBROUTINE ITBIOA
```

```
810625 084928169
Carteria de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contra
C# ATU MOD LCR
C* PRINTS LITEM/SUPPORT EQUIPMENT CROSS-REFERENCE
COMMON / PRNTXX/ PRNTXX
                INTEGER PRNTXX
               COMMON 'FULLXY FULLXX
                INTEGER FULLXX
                COMMON A/A(150,4,3)
                INTEGER A
                \texttt{COMMON}/I/ \text{ ...}
                COMMON INO, INO(150)
               COMMON /IRMIN/ IRMIN(150,4)
                COMMON TIRMT TIRMT
               COMMON (MXI) MXI
               COMMON CMXIRMT, MXIRMT
               COMMON NJA/ NJA(150,4)
               COMMON QSA/ QSA(150,4,3)
           1 FORMAT (1H1/23X,66HINPUT TABLE 10A: ITEM/SE CROSS REFERENCE DATA -
             +DEPOT LEVEL REPAIR)
           2 FORMAT(41X,11H(CONTINUED))
           3 FORMAT()/7X,5HNUMB./7X,5HOF SE,2X,2HSE,17(4X,2HSE)/1X,4H1TEM,2X,4H
             +TYPE, 9.1X,3HINDEX,1X,5HQUAN-)/1X,5HINDEX,1X,5HREQRD,2X,3HNQ.,2X,4
             +HTITY,8(3X,5HNO.,2X,4HTITY)/2X,3H(I),2X,5H(NJA), 9(2X,3H(A),2X,5H(
             +QSA1)/1
           4 FORMAT(2X,13,3X,13,28(9(2X,14,2X,F4.0)/))
C
C
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                IF(PRNTXX.Eq.G.OR.FULLXX.EQ.O) RETURN
C
                IFLAG=1
                IPAGE=40
                DO 240 4XXX1=1.4XXI
                      i = INO(1XXX1)
                      IF(.NOT.(IPAGE.EQ.40)) GO TO 220
                          WRITE( 7, 1)
                           1 \text{PAGE} = 1
                           IF(:NOT:(:FLAG:NE:1)) \in GO(TO) 210
                                WRITE( 7, 2)
     210
                          CONTINUE
                          WRITE( 7, 3)
                           IPAGE=1
```

```
C
                                                                                                                                                                                                                                                                                                                                                         810625 084932651
Considerate the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
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C* PRINTS ITEM/SUPPORT EQUIPMENT CROSS-REFERENCE
C the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
С
                                     COMMON /PRNTXX/ PRNTXX
                                     INTEGER PRNTXX
                                     COMMON /FULLXX/ FULLXX
                                     INTEGER FULLXX
                                     COMMON /A/A(150,4,3)
                                     INTEGER A
                                     COMMON /I/ I
                                     COMMON /INO/ INO(150)
                                     COMMON / IRMIN/ IRMIN(150,4)
                                     COMMON / IRMT/ IRMT
                                     COMMON /MXI/ MXI
                                     COMMON /MXIRMT/ MXIRMT
                                     COMMON /NJA/ NJA(150,4)
                                     COMMON /QSA/ QSA(150,4,3)
                          1 FORMAT(1H1/23X,68HINPUT TABLE 10B: ITEM/SE CROSS REFERENCE DATA -
                               +BASE LEVEL, PSE ONLY)
                         2 FORMAT(41X,11H(CONTINUED))
                          3 FORMAT(//7X,5HNUMB./7X,5HOF SE,2X,2HSE,17(4X,2HSE)/1X,4HITEM,2X,4H
                               +TYPE, 9(1X,5HINDEX,1X,5HQUAN-)/1X,5HINDEX,1X,5HREQRD,2X,3HNO.,2X,4
                               +HTITY, 8(3X, 3HNO., 2X, 4HTITY)/2X, 3H(I), 2X, 5H(NJA), 9(2X, 3H(A), 2X, 5H(A), 2X, 5H(A), 2X, 3H(A), 2X, 3H(A), 2X, 3H(A), 2X, 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A
                               +QSA))/)
                         4 FORMAT(2X, I3, 3X, I3, 28(9(2X, I4, 2X, F4.0)/))
С
С
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                                     IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
                                     IFLAG=1
                                     IPAGE=40
                                     DO 240 IXXX1=1,MXI
                                                  I=INO(IXXX1)
                                                  IF(.NOT.(IPAGE.EQ.40)) GO TO 220
                                                             WRITE( 7, 1)
                                                              IPAGE=1
                                                               IF(.NOT.(IFLAG.NE.1)) GO TO 210
                                                                          WRITE( 7, 2)
                                                             CONTINUE
            210
                                                             WRITE( 7, 3)
                                                              IPAGE=1
```

SUBROUTINE ITB10B

```
220 CONTINUE
DO 230 IRMT=1,MXIRMT
IF(.NOT.(IRMIN(I,IRMT).EQ.2)) GO TO 230
WRITE( 7, 4) I,NJA(I,IRMT),(A(I,IRMT,K2),QSA(I,IRMT,K2),K2=1,
+ 3)
230 CONTINUE
IFLAG=0
IPAGE=IPAGE+1
240 CONTINUE

RETURN
END
```

```
SUBROUTINE ITB10C
                                                                                                                                                                                                                                                                                                                                                           810625 084939578
С
Considerate destructives de considerate de la considerate de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de destructives de d
C* ATU MOD LCR
C* PRINTS ITEM/SUPPORT EQUIPMENT CROSS-REFERENCE
Constitution is a constitution of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state 
                                     COMMON /PRNTXX/ PRNTXX
                                      INTEGER PRNTXX
                                    COMMON /FULLXX/ FULLXX
                                      INTEGER FULLXX
                                    COMMON /A/ A(150,4,3)
                                      INTEGER A
                                      COMMON /I/ I
                                      COMMON / INO / INO (150)
                                      COMMON / IRMIN/ IRMIN(150,4)
                                      COMMON / IRMT/ IRMT
                                      COMMON /MXI/ MXI
                                      COMMON /MXIRMT/ MXIRMT
                                      COMMON /NJA/ NJA(150,4)
                                      COMMON /QSA/ QSA(150,4,3)
                           1 FORMAT(1H1/23X,63HINPUT TABLE 10C: ITEM/SE CROSS REFERENCE DATA -
                               +BASE LEVEL, MBS)
                         2 FORMAT(41X, 11H(CONTINUED))
                          3 FORMAT(//7X,5HNUMB./7X,5HOF SE,2X,2HSE,17(4X,2HSE)/1X,4HITEM,2X,4H
                               +TYPE, 9(1X,5HINDEX,1X,5HQUAN-)/1X,5HINDEX,1X,5HREQRD,2X,3HNO.,2X,4
                               +HTITY, 8(3X, 3HNO., 2X, 4HTITY)/2X, 3H(I), 2X, 5H(NJA), 9(2X, 3H(A), 2X, 5H(A), 2X, 5H(A), 2X, 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H(A), 3H
                                +QSA))/)
                         4 FORMAT(2X, 13, 3X, 13, 28(9(2X, 14, 2X, F4.0)/))
C
C
 C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                                      IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
 С
                                      IFLAG=1
                                      IPAGE=40
                                      DO 240 IXXX1=1,MXI
                                                   I = INO(IXXX1)
                                                   IF(.NOT.(IPAGE.EQ.40)) GO TO 220
                                                              WRITE( 7, 1)
                                                               IPAGE=1
                                                               IF(.NOT.(IFLAG.NE.1)) GO TO 210
                                                                           WRITE( 7, 2)
             210
                                                               CONTINUE
```

WRITE(7, 3)
IPAGE=1

SUBROUTINE ITB10D

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810625 084943099
Chapter property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the proper
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C* PRINTS ITEM/SUPPORT EQUIPMENT CROSS-REFERENCE
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C
                           COMMON /PRNTXX/ PRNTXX
                           INTEGER PRNTXX
                           COMMON /FULLXX/ FULLXX
                           INTEGER FULLXX
                           COMMON /A/A(150,4,3)
                           INTEGER A
                           COMMON /I/ I
                           COMMON /INO/ INO(150)
                           COMMON / IRMIN/ IRMIN(150,4)
                           COMMON / IRMT/ IRMT
                           COMMON /MXI/ MXI
                           COMMON /MXIRMT/ MXIRMT
                           COMMON /NJA/ NJA(150,4)
                           COMMON /QSA/ \( \subseteq \text{SA}(150,4,3) \)
                   1 FORMAT(1H1/23X,63HINPUT TABLE 10D: ITEM/SE CROSS REFERENCE DATA -
                      +BASE LEVEL, UCT)
                  2 FORMAT(41X,11H(CONTINUED))
                  3 FORMAT(//7X,5HNUMB./7X,5HOF SE,2X,2HSE,17(4X,2HSE)/1X,4HITEM,2X,4H
                      +TYPE, 9(1X,5HINDEX,1X,5HQUAN-)/1X,5HINDEX,1X,5HREQRD,2X,3HNO.,2X,4
                      +HTITY,8(3X,3HNO.,2X,4HTITY)/2X,3H(I),2X,5H(NJA), 9(2X,3H(A),2X,5H(
                      +QSA))/)
                  4 FORMAT(2X,13,3X,13,28(9(2X,14,2X,F4.0)/))
С
С
С
C.
                ...ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                            IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
С
                            IFLAG=1
                           IPAGE=40
                           DO 240 IXXX1=1,MXI
                                     I=INO(IXXX1)
                                     IF(.NOT.(IPAGE.EQ.40)) GO TO 220
                                             WRITE( 7, 1)
                                             IPAGE=1
                                             IF(.NOT.(IFLAG.NE.1)) GO TO 210
                                                      WRITE( 7, 2)
         210
                                             CONTINUE
                                             WRITE( 7, 3)
                                             IPAGE=1
```

```
220 CONTINUE
DO 230 IRMT=1,MXIRMT
IF(.NOT.(IRMIN(I,IRMT).EQ.4)) GO TO 230
WRITE( 7, 4) I,NJA(I,IRMT),(A(I,IRMT,K2),QSA(I,IRMT,K2),K2=1,
+ 3)
230 CONTINUE
IFLAG=0
IPAGE=IPAGE+1
240 CONTINUE

RETURN
END
```

```
C
                                                  810625 084945134
C* PRINTS ITEM CONFIGURATIONS ON PLATFORMS DATA FILE
COMMON /PRNTXX/ PRNTXX
     INTEGER PRNTXX
     COMMON /FULLXX/ FULLXX
     INTEGER FULLXX
     COMMON /I/ I
     COMMON /INO/ INO(150)
     COMMON /MXI/ MXI
     COMMON /NITEM/ NITEM(150,5)
     REAL NITEM
     COMMON /NP/ NP
   1 FORMAT(1H1/3X,65HINPUT TABLE 11A: ITEM CONFIGURATIONS ON PLATFORM
    +s - NITEM(I,NP)
   2 FORMAT(29X,11H(CONTINUED))
   3 FORMAT(//2X,4HITEM,15X,47HAVE. NUMBER OF ITEMS INSTALLED ON PLATFO
    +RM TYPE/2X,5HINDEX,3X,69(1H-)/3X,3H(I), 12X,1H1,5X,1H2,5X,1H3,5X,1
    +H4,5X,1H5,5X,1H6,5X,1H7,5X,1H8,5X,1H9,5X,2H10/)
   4 FORMAT(3X, I3, 9X, 10(F5.2, 1X))
С
С
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
     IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
С
     IFLAG=1
     IPAGE=40
     DO 230 IXXX1=1,MXI
       I=INO(IXXX1)
       IF(.NOT.(IPAGE.EQ.40)) GO TO 220
         WRITE( 7, 1)
         IPAGE=1
         IF(.NOT.(IFLAG.NE.1)) GO TO 210
          WRITE( 7, 2)
  210
         CONTINUE
         WRITE( 7, 3)
  220
       CONTINUE
       WRITE (7, 4) I, (NITEM(I,NP),NP=1,5)
       IFLAG=0
       IPAGE=IPAGE+1
  230 CONTINUE
     RETURN
     END
```

SUBROUTINE ZFAIL

```
С
                                                                                                                                                                                                                                                                                                                   810625 084947936
Caracteristic for the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of 
C* COMPUTES AUXILIARY VARIABLE FAIL(I,NS)
Considerate that the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate is the considerate in the considerate is the considerate in the considerate is the considerate in the considerate is the considerate in the considerate is the considerate in the considerate is the considerate in the considerate is the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate in the considerate
С
                                  COMMON /APFH/ APFH(5,3)
                                  COMMON /FAIL/ FAIL(150,10)
                                  COMMON /I/ I
                                  COMMON /INO/ INO(150)
                                  COMMON /KFAC/ KFAC(4)
                                  REAL KFAC
                                 COMMON /LE/ LE(5)
                                  COMMON /LO/ LO(10)
                                  COMMON /MTBMI/ MTBMI(150,4)
                                 REAL MTBNI
                                  COMMON /MXI/ MXI
                                  COMMON /MXNP/ MXNP
                                  COMMON /MXNS/ MXNS
                                  COMMON /NITEM/ NITEM(150,5)
                                  REAL NITEM
                                  COMMON /NP/ NP
                                  COMMON /NPLT/ NPLT(5,10)
                                  REAL NPLT
                                  COMMON /NS/ NS
                                  COMMON /RIP/ RIP(150)
                                  COMMON /TFAC/ TFAC(5)
                                  COMMON /XFR/ XFR
С
                                  DO 230 NS=1,MXNS
                                             DO 220 IXXX2=1,MXI
                                                       I=INO(IXXX2)
                                                       DO 210 NP=1,MXNP
                                                                   IF(.NOT.(NITEM(I,NP).GT..000001)) GO TO 210
                                                                   FL=NITEM(I,NP)*(1.-RIP(I))*NPLT(NP,NS)*APFH(NP,LO(NS))*
                                                                              TFAC(NP)*KFAC(LE(NP))*XFR/MTBMI(I,LE(NP))
                                                                   FAIL(I,NS)=FAIL(I,NS)+FL
            210
                                                       CONTINUE
            220
                                             CONTINUE
            230 CONTINUE
С
                                  RETURN
                                  END
```

```
SUBROUTINE ZNFB
                                                                                                                                                                               810625 084953158
C*********************************
C* COMPUTES PIPELINE SPARES NFB(I,NS) AT BASE NS
                                                                                                                                                                                                                               4.
C* AND NFD(I) AT THE DEPOT
Current and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
                   COMMON /B/ B
                   INTEGER B
                   COMMON / BRCT/ BRCT
                   COMMON /BTYPE/ BTYPE(10)
                    INTEGER BTYPE
                   COMMON /COND/ COND(150)
                    COMMON /CRCT/ CRCT
                    COMMON /DAD/ DAD
                    COMMON /DRCT/ DRCT(3)
                    COMMON /FAIL/ FAIL(150,10)
                    COMMON /FPR/ FPR(150)
                    COMMON /I/ 1
                    COMMON /INO/ INO(150)
                     COMMON /LO/ LO(10)
                     COMMON /LRU/ LRU(150)
                     COMMON /MXI/ MXI
                     COMMON /MXNS/ MXNS
                     COMMON /NBC/ NBC(10)
                     REAL NBC
                     COMMON /NFB/ NFB(150,10)
                     REAL NFB
                     COMMON /NFD/ NFD(150)
                     REAL NFD
                      COMMON /NHB/ NHB(10)
                      COMMON /NHI/ NHI(150)
                      COMMON /NRTS/ NRTS(150)
                      REAL NRTS
                      COMMON /NS/ NS
                      COMMON /OST/ OST(3)
                      COMMON /OSTC/ OSTC
                       COMMON /RTS/ RTS(150)
                       COMMON /TNB/ TNB(10)
                      COMMON /XFPR/ XFPR
                       REAL NHNRT
                       REAL NHRT
    С
    С
                       DO 270 IXXX1=1,MXI
                              I=INO(IXXX1)
                              XF=XFPR*FPR(I)
```

```
NHRT=0.
                           NHNRT=0.
                           IF(.NOT.(NHI(1).NE.0)) GO TO 210
                                  NHRT=RTS(NHI(I))
                                 NHNRT=NRTS(NHI(I))
      210
                          CONTINUE
                           DO 260 NS=1,MXNS
                                  SFL=0.
                                  IF(.NOT.(BTYPE(NS).EQ.3)) GO TO 220
C
C..... COMPUTE SATELLITE BASE FAILURES
                                        NFB(I,NS) = FAIL(I,NS) * FLOAT(LRU(I)) * (1.+XF) * OSTC
      220
                                  CONTINUE
                                  IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 240
С
C..... COMPUTE BASE FAILURES FROM SATELLITES
                                        TEM01=0.
                                        DO 230 B=1,MXNS
                                                IF(.NOT.(NHB(B).EQ.NS)) GO TO 230
                                               TEMO1=TEMO1+FAIL(I,B)*NBC(B)
      230
                                        CONTINUE
                                         SFL=TEM01
                                         SFL = SFL + (FLOAT(LRU(I)) + NHRT) + ((RTS(I) + XF) + CRCT + (NRTS(I) + XF) + CRCT + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRTS(I) + XF) + (NRT
                                                COND(I))*(OST(LO(NS))+U(XF)*CRCT))
       240
                                  CONTINUE
                                  IF(.NOT.(BTYPE(NS).LT.3)) GO TO 250
                                         NFB(I,NS)=FAIL(I,NS)*(FLOAT(LRU(I))+NHRT)*((RTS(I)+XF)*BRCT+
                                                (NRTS(I)+COND(I))*OST(LO(NS)))+SFL
       250
                                  CONTINUE
                                  NFD(I)=NFD(I)+FAIL(I,NS)*TNB(NS)*((FLOAT(LRU(I))+NHRT)*NRTS(I)
                                         *DRCT(LO(NS))+NHNRT*(1.-COND(I))*DAD)
                           CONTINUE
       260
      270 CONTINUE
                    RETURN
                    END
```

```
810625 085002830
C* COMPUTES ITEM INTERMEDIATE REPAIR HOURS PER MONTH,
C* ERHBI(I,NS) AT BASE NS AND ERHD(I) AT THE DEPOT.
COMMON /B/ B
     INTEGER B
     COMMON / BCMH/ BCMH(150)
     COMMON /BMF/ BMF
     COMMON /BMH/ BMH(150)
     COMMON /BTYPE/ BTYPE(10)
     INTEGER BTYPE
     COMMON / COND/ COND(150)
     COMMON / DMF / DMF
     COMMON /DMH/ DMH(150)
     COMMON /EBCBI/ EBCBI(150,10)
     COMMON /ERHBI/ ERHBI(150,10)
     COMMON /ERHD/ ERHD(150)
     COMMON /ERTBI/ ERTBI(150,10)
     COMMON /FAIL/ FAIL(150,10)
     COMMON /FPR/ FPR(150)
     COMMON /I/ I
     COMMON / INO/ INO(150)
     COMMON , LRU/ LRU(150)
     COMMON /MXI/ MXI
     COMMON /MXNS/ MXNS
     COMMON /NBC/ NBC(10)
     REAL NBC
     COMMON 'NHB/ NHB(10)
     COMMON /NHI/ NHI(150)
     COMMON /NRTS/ NRTS(150)
     REAL NRTS
     COMMON /NS/ NS
     COMMON /RTS/ RTS(150)
     COMMON /TNB/ TNB(10)
     COMMON /XFPR/ XFPR
     REAL NHNRT
     REAL NHRT
С
     DO 260 IXXX1=1,MXI
       I = INO(IXXX1)
       NHRT=0.
       NHNRT=0.
```

IF(.NOT.(NHI(I).NE.O)) GO TO 210

```
NHRT=RTS(NHI(I))
          NHNRT=NRTS(NHI(I))
 210
        CONTINUE
        XF=XFPR*FPR(I)
        DO 250 NS=1, MKNS
          SFL1=0.
          SFL2=0.
          ERHBI(I,NS)=0
          EBCBI(I,NS)=0.
          ERTBI(I,NS)=0.
          IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 230
С
         ...INCLUDE REPAIRS FROM SATELLITE BASES
            TEM01=0.
            DO 220 B=1, MXNS
              IF(.NOT.(NHB(B).EQ.NS)) GO TO 220
              TEMO1=TEMO1+FAIL(I,B)*NBC(B)
  220
            CONTINUE
            SFL1=TEM01
            SFL2=SFL1*(FLOAT(LRU(I))+NHRT)*U(1.-COND(I))*RTS(I)*BMH(I)*
              BMF
            SFL1=SFL1*(FLOAT(LRU(I))+NHRT)*((RTS(I)+NRTS(I)+XF+U(XF)*
              COND(I))*BCMH(I))*BMF
  230
          CONTINUE
          IF(.NOT.(BTYPE(NS).LT.3)) GO TO 240
            EBCBI(I,NS) = FAIL(I,NS) * (FLOAT(LRU(I)) + NHRT) * ((1.+XF) * BCMH(I))
              )*BMF+SFL1
            ERTBI(I,NS)=FAIL(I,NS)*(FLOAT(LRU(I))+NHRT)*U(1.-COND(I))*
              RTS(I)*BMH(I)*BMF+SFL2
            ERHBI(I,NS)=EBCBI(I,NS)+ERTBI(I,NS)
  240
          CONTINUE
          ERHD(I)=ERHD(I)+FAIL(I,NS)*TNB(NS)*((FLOAT(LRU(I))+NHRT)*
            NRTS(I)+NHNRT*(1.-COND(I)))*DMH(I)*DMF
  250
        CONTINUE
  260 CONTINUE
C
      RETURN
      END
```

SUBROUTINE ZERHSE

```
С
                                                                                                                                                                       810625 085010420
Considerate the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
C#
          ATU MOD SLR - 21 MAY 80
C#
           CALCULATES EXPECTED MANHOURS PER MONTH
           THAT SUPPORT EQUIP. TYPE L IS UTILIZED,
C::
           ERHAB(L,NS) AT BASE NS AND ERHAD(L) AT THE DEPOT.
С
                  COMMON /A/ A(150,4,3)
                  INTEGER A
                  COMMON /BSP/ BSP(10)
                  INTEGER BSP
                  COMMON /EBCBI/ EBCBI(150,10)
                  COMMON /ERHAB/ ERHAB(120,10)
                  COMMON /ERHAD/ ERHAD(120)
                  COMMON /ERHD/ ERHD(150)
                  COMMON /ERTBI/ ERTBI(150,10)
                  COMMON /I/ I
                  COMMON /INO/ INO(150)
                  COMMON / IRMIN/ IRMIN(150,4)
                  COMMON / IRMT/ IRMT
                  COMMON /L/ L
                  COMMON /LT/ LT
                  COMMON /MXI/ MXI
                  COMMON /MXIRMT/ MXIRMT
                  COMMON /MXLT/ MXLT
                  COMMON /MXNS/ MXNS
                  COMMON /NJA/ NJA(150,4)
                  COMMON /NRM/ NRM(150)
                  COMMON /NS/ NS
                  COMMON /QSA/ QSA(150,4,3)
                  COMMON /RMI/ RMI(150,10)
                  INTEGER RMI
                  INTEGER FLAG
                  INTEGER FLAG1
                  INTEGER FLAG2
                  INTEGER FLAG3
                  INTEGER SECODE
С
                  DO 410 IXXX1=1,MXI
                        I=INO(IXXX1)
                        NXXX1=NRM(1)
                        IF(.NOT.(NXXX1.NE.0)) GO TO 400
                              DO 280 NS=1, MXNS
```

RMI(I,NS) = BSP(NS) + 1

```
FLAG1=0
          FLAG2=0
          DO 240 IRMT=1,MXIRMT
            IF(.NOT.(IRMT.LE.NXXX1)) GO TO 250
            IF(.NOT.(IRMIN(I,IRMT).EQ.RMI(I,NS))) GO TO 210
              FLAG1=IRMT
210
            CONTINUE
            IF(.NOT.(IRMIN(I,IRMT).EQ.2)) GO TO 220
              FLAG2=IRMT
220
            CONTINUE
            IF(.NOT.(IRMIN(I,IRMT).EQ.1)) GO TO 230
              FLAG3=IRMT
230
            CONTINUE
240
          CONTINUE
250
          CONTINUE
          FLAG=FLAG1
          IF(.NOT.(FLAG1.EQ.0)) GO TO 270
            FLAG=FLAG2
            RMI(I,NS)=2
            IF(.NOT.(FLAG2.EQ.0)) GO TO 260
              FLAG=FLAG3
              RMI(I,NS)=1
260
            CONTINUE
270
          CONTINUE
280
        CONTINUE
        DO 380 IRMT=1, MXIRMT
          IF(.NOT.(IRMT.LE.NXXX1)) GO TO 390
          NXXX2=NJA(I,IRMT)
          IF(.NOT.(NXXX2.NE.0)) GO TO 370
            DO 350 LT=1,MXLT
              IF(.NOT.(LT.LE.NXXX2)) GO TO 360
              L=A(I, IRMT, LT)
              IF(.NOT.(IRMIN(I,IRMT).EQ.1)) GO TO 300
                SECODE=INT(QSA(I,IRMT,LT)/100.)
                IF(.NOT.(SECODE.GT.O.AND.SECODE.LT.3)) GO TO 290
                  ERHAD(L)=ERHAD(L)+ERHD(I)
290
                CONTINUE
300
              CONTINUE
              DO 340 NS=1,MXNS
                IF(.NOT.(IRMIN(I,IRMT).EQ.RMI(I,NS))) GO TO 330
                  SECODE=INT(QSA(I,IRMT,LT)/100.)
                  IF(.NOT.(SECODE.GT.1)) GO TO 310
                    ERHAB(L,NS)=ERHAB(L,NS)+EBCBI(I,NS)
310
                  CONTINUE
                  IF(.NOT.(SECODE.GT.O.AND.SECODE.LT.3)) GO TO 320
                    ERHAB(L,NS)=ERHAB(L,NS)+ERTBI(I,NS)
320
                  CONTINUE
```

```
CONTINUE
 330
                CONTINUE
 340
              CONTINUE
 350
              CONTINUE
  360
  370
            CONTINUE
          CONTINUE
  380
  390
          CONTINUE
        CONTINUE
  400
  410 CONTINUE
С
      RL URN
      END
```

SUBROUTINE ZISET

```
C
                                                                                                                                                             810625 085021477
 C* ATU MOD SLR 21 MAY 80
C* CALCULATES THE MAXIMUM NUMBER OF SUPPORT
C* EQUIP. OF TYPE L REQUIRED: ISET(L,NS) AT
         BASE NS AND ISETD(L) AT THE DEPOT
 Contribution of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of th
 C
                 COMMON /A/ A(150,4,3)
                 INTEGER A
                 COMMON /ERHBI/ ERHBI(150,10)
                 COMMON /ERHD/ ERHD(150)
                 COMMON /1/ I
                 COMMON /INO/ INO(150)
                 COMMON / IRMIN/ IRMIN(150,4)
                 COMMON /IRMT/ IRMT
                 COMMON / ISET/ ISET(120,10)
                 REAL ISET
                 COMMON /ISETD/ ISETD(120)
                 REAL ISETD
                 COMMON /L/ L
                 COMMON /LT/ LT
                 COMMON /MXI/ MXI
                 COMMON /MXIRMT/ MXIRMT
                 COMMON /MXLT/ MXLT
                 COMMON / MANS/ MXNS
                 COMMON /NJA/ NJA(150,4)
                 COMMON /NRM/ NRM(150)
                 COMMON /NS/ NS
                 COMMON /QSA/ QSA(150,4,3)
                 COMMON /RMI/ RMI(150,10)
                 INTEGER RMI
С
C
                 DO 360 IXXX1=1,MX1
                       I=INO(IXXX1)
                       NXXX1=NRM(1)
                       IF(.NOT.(NXXX1.NE.0)) GO TO 350
                            DO 270 NS≈1, MXNS
                                  IF(.NOT.(ERHBI(I,NS).GT.0.000001)) GO TO 270
                                 DO 250 TRMT=1,MXTRMT
                                        IF(.NOT.(IRMT.LE.NXXX1)) GO TO 260
                                        IF(.NOT.: IRMIN(1,IRMT).EQ.RMI(1,NS))) GO TO 240
                                            NXXX2=NJA(1,1RMT)
                                             IF(.NOT.(NXXX2.NE.0)) GO TO 230
                                                  DO 210 LT=1,MXLT
```

```
IF(.NOT.(LT.LE.NXXX2)) GO TO 220
                    L=A(I,IRMT,LT)
                    TQSA=QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,LT)/100.)*100.
                    ISET(L,NS)=AMAX1(ISET(L,NS),TQSA)
 210
                  CONTINUE
  220
                  CONTINUE
                CONTINUE
 230
 240
              CONTINUE
 250
            CONTINUE
  260
            CONTINUE
  270
          CONTINUE
          IF(.NOT.(ERHD(I).GT.0.000001)) GO TO 340
            DO 320 IRMT=1,MXIRMT
              IF(.NOT.(IRMT.LE.NXXX1)) GO TO 330
              IF(.NOT.(IRMIN(1,IRMT).EQ.1)) GO TO 310
                NXXX2=NJA(I,IRMT)
                IF(.NOT.(NXXX2.GT.0)) GO TO 300
                  DO 280 LT=1,MXLT
                    IF(.NOT.(LT.LE.NXXX2)) GO TO 290
                    L=A(I,IRMT,LT)
                    TQSA=QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,LT)/100.)*100.
                    ISETD(L)=AMAX1(ISETD(L),TQSA)
  280
                  CONTINUE
  290
                  CONTINUE
  300
                CONTINUE
  310
              CONTINUE
            CONTINUE
  320
            CONTINUE
  330
  340
          CONTINUE
  350
        CONTINUE
  360 CONTINUE
С
      RETURN
      END
```

SUBROUTINE ZUSE

```
С
                                                                                                                                                                                                                                                                                                             810625 085037203
Considerate de stanta de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servición de servic
C* COMPUTES UTILIZATION TO BE USED FOR
C* SENSITIVITY BMF &DMF FACTORS
Chapter des production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the 
                                COMMON /BAA/ BAA
                                COMMON /DAA/ DAA
                                COMMON /ERHAB/ ERHAB(120,10)
                                COMMON /ERHAD/ ERHAD(120)
                                COMMON /L/ L
                                COMMON /MUSE/ MUSE
                                 REAL MUSE
                                 COMMON / MXL/ MXL
                                 COMMON /MXNS/ MXNS
                                 COMMON /NS/ NS
                                 COMMON /SEINO/ SEINO(120)
                                 INTEGER SEINO
                                 COMMON /SETYPE / SETYPE(120)
                                 INTEGER SETYPE
                                 COMMON /USE/ USE(120,10)
                                COMMON /USED/ USED(120)
                                 REAL MUSEB
                                 REAL MUSED
C
C
                                 MUSEB=MUSE*BAA
                                 MUSED=MUSE#DAA
                                 DO 250 IXXX1=1,MXL
                                            L=SEINO(IXXX1)
                                            IF(.NOT.(SETYPE(L).GE.2)) GO TO 240
                                                      DO 220 NS=1,MXNS
                                                                  IF(.NOT.(ERHAB(L.NS).GT..000001.AND.ERHAB(L,NS).LT.
                                                                            MUSEB); GO TO 210
                                                                           USE(L,NS)=0.
           210
                                                                CONTINUE
            220
                                                      CONTINUE
                                                       IF(.NOT.(ERHAD(L).GT..000001.AND.ERHAD(L).LT.MUSED)) GO TO 230
                                                                 USED(L)=0.
            230
                                                      CONTINUE
                                          CONTINUE
           240
            250 CONTINUE
C
                                 RETURN
                                 END
```

SUBROUTINE ZTYPE

```
810625 085042000
C* COMPUTES SAT AND CIMF FACTORS ACCORDING
C* TO BTYPE FOR SENSITIVITY CALCULATIONS
City the state is the first the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
                          COMMON /BTYPE/ BTYPE(10)
                           INTEGER BTYPE
                          COMMON /CIMF/ CIMF(10)
                          COMMON /MXNS/ MXNS
                           COMMON /NS/ NS
                          COMMON /SAT/ SAT(10)
С
                          DO 230 NS=1, MXNS
                                   SAT(NS)=0.
                                   CIMF(NS)=0.
                                    IF(.NOT.(BTYPE(NS).EQ.3)) GO TO 210
                                             SAT(NS)=1.
         210
                                   CONTINUE
                                    IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 220
                                            CIMF(NS)=1.
         220
                                   CONTINUE
         230 CONTINUE
                          RETURN
                          END
```

SUBROUTINE ZTFR С 810625 085044519 City and the first of the first COMPUTES ITEM FAILURE RATE Circ all and the a COMMON /APFH/ APFH(5,3) COMMON /FAIL/ FAIL(150,10) COMMON /FPLT/ FPLT(150) COMMON /FPM/ FPM(150) COMMON /I/ I COMMON /INO/ INO(150) COMMON /LO/ LO(10) COMMON /MXI/ MXI COMMON /MXNP/ MXNP COMMON /MXNS/ MXNS COMMON /NITEM/ NITEM(150,5) REAL NITEM COMMON /NP/ NP COMMON /NPLT/ NPLT(5,10) REAL NPLT COMMON /NS/ NS COMMON /PIUP/ PIUP COMMON /TFAC/ TFAC(5) COMMON /TFR/ TFR(150) COMMON /TNB/ TNB(10) DO 250 IXXX1=1,MXI I=INO(IXXX1) TFR(I)=0.0TEM01=0. DO 210 NS=1,MXNS TEMO1=TEMO1+TNB(NS)*FAIL(I,NS) 210 CONTINUE FPM(I)=TEM01FPLT(I)=12.*PIUP*FPM(I) TEM03=0. DO 230 NS=1,MXNS TEM02=0. DO 220 NP=1,MXNP TEM02=TEM02+NITEM(I,NP)*NPLT(NP,NS)*APFH(NP,LO(NS))*TFAC(NP) CONTINUE 220

TEM03=TEM03+TNB(NS)*TEM02

IF(.NOT.(TOO.GE.O.000001)) GO TO 240

CONTINUE

TOO=TEMO3

230

```
TFR(I)=FPM(I)*1000000./TOO
240 CONTINUE
250 CONTINUE
C
RETURN
END
```

SUBROUTINE ZSECI

```
С
                                                                                                                                                                                                                                                                                   810625 085048566
City the distributed for the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
C* COMPUTES SECI(I), THE PRO RATA PART OF SEC
C* ATU MOD JRC 2 JUN 80
Completation and the first of the translation of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the firs
                              COMMON /A/A(150,4,3)
                              INTEGER A
                              COMMON /BAA/ BAA
                              COMMON /COND/ COND(150)
                              COMMON /CSE/ CSE(120)
                              COMMON /DAA/ DAA
                              COMMON /ERHA/ ERHA(120)
                              COMMON /ERHAB/ ERHAB(120,10)
                              COMMON /ERHAD/ ERHAD(120)
                              COMMON /ERHBI/ ERHBI(150,10)
                              COMMON /ERHD/ ERHD(150)
                              COMMON /I/ I
                              COMMON /INO/ INO(150)
                              COMMON / IRMIN/ IRMIN(150,4)
                              COMMON / IRMT/ IRMT
                              COMMON /ISET/ ISET(120,10)
                              REAL ISET
                              COMMON /ISETD/ ISETD(120)
                              REAL ISETD
                              COMMON /L/ L
                              COMMON /LT/ LT
                              COMMON /MSE/ MSE(120)
                              REAL MSE
                              COMMON /MXI/ MXI
                              COMMON /MXIRMT/ MXIRMT
                              COMMON /MXL/ MXL
                              COMMON /MXLT/ MXLT
                              COMMON /MXNS/ MXNS
                              COMMON /NJA/ NJA(150,4)
                              COMMON /NRM/ NRM(150)
                              COMMON /NS/ NS
                              COMMON /NSEB/ NSEB(120,10)
                              REAL NSEB
                              COMMON /NSED/ NSED(120)
                              REAL NSED
                              COMMON /PBDV/ PBDV(120)
                              COMMON /PDDV/ PDDV(120)
                              COMMON /PIUP/ PIUP
                              COMMON /QSA/QSA(150,4,3)
                              COMMON /RMI/ RMI(150,10)
```

```
INTEGER RMI
      COMMON /SECB/ SECB(120)
      COMMON /SECD/ SECD(120)
      COMMON /SECI/ SECI(150)
      COMMON /SEDEV/ SEDEV(120)
      COMMON /SEDV/ SEDV(120)
      COMMON /SEINO/ SEINO(120)
      INTEGER SEINO
      COMMON /SETYPE/ SETYPE(120)
      INTEGER SETYPE
      COMMON /TERHB/ TERHB(120)
      COMMON /TERHD/ TERHD(120)
      COMMON /TNB/ TNB(10)
      COMMON /TUCTDC/ TUCTDC
      COMMON /UCTDC/ UCTDC(150)
      COMMON /UCTDEV/ UCTDEV(150)
      REAL NXXX1
      REAL NXXX2
      DIMENSION T2(150,120)
      DIMENSION T4(150,120)
С
С
      DO 210 IXXX1=1,MXI
        I = INO(IXXX1)
        UCTDC(I)=UCTDEV(I)*U(1.-COND(I))
        TUCTDC=TUCTDC+UCTDC(I)
  210 CONTINUE
      DO 270 IXXX1=1,MXL
        L=SEINO(IXXX1)
        DO 240 NS=1,MXNS
          IF(.NOT.(SETYPE(L).EQ.1)) GO TO 220
            NSEB(L,NS) = ERHAB(L,NS)/BAA*ISET(L,NS)
  220
          CONTINUE
          IF(.NOT.(SETYPE(L).GE.2)) GO TO 230
            NSEB(L,NS) = AINT(ERHAB(L,NS)/BAA+.9999)*ISET(L,NS)
  230
          CONTINUE
  240
        CONTINUE
        IF(.NOT.(SETYPE(L).EQ.1)) GO TO 250
          NSED(L)=ERHAD(L)/DAA*ISETD(L)
  250
        CONTINUE
        IF(.NOT.(SETYPE(L).GE.2)) GO TO 260
          NSED(L) = AINT(ERHAD(L)/DAA+.9999)*ISETD(L)
        CONTINUE
  260
  270 CONTINUE
      DO 430 IXXX1=1,MXI
        I=INO(IXXX1)
        DO 280 IXXX2=1,MXL
```

```
L=SEINO(IXXX2)
        T2(I,L)=0.
        T4(1,L)=0.
280
      CONTINUE
      NXXX1=NRM(I)
      IF(.NOT.(NXXX1.GT.0)) GO TO 360
        DO 350 NS=1, MXNS
          DO 330 IRMT=1,MXIRMT
            IF(.NOT.(IRMT.LE.NXXX1)) GO TO 340
            IF(.NOT.(IRMIN(I,IRMT).EQ.RMI(I,NS))) GO TO 320
              NXXX2=NJA(I,IRMT)
              IF(.NOT.(NXXX2.GT.0)) GO TO 310
                 DO 290 LT=1,MXLT
                   IF(.NOT.(LT.LE.NXXX2)) GO TO 300
                   L=A(I,IRMT,LT)
                   T1=ERHBI(I,NS)*TNB(NS)*(QSA(I,IRMT,LT)-AINT(QSA(I,
                     IRMT,LT)/100.)*100.)
                   TERHB(L)=TERHB(L)+T1
                   T2(I,L)=T2(I,L)+T1
290
                 CONTINUE
300
                 CONTINUE
310
              CONTINUE
320
            CONTINUE
330
          CONTINUE
340
          CONTINUE
350
        CONTINUE
360
      CONTINUE
      DO 410 IRMT=1,MXIRMT
        IF(.NOT.(IRMT.LE.NXXXI)) GO TO 420
        IF(.NOT.(IRMIN(I,IRMT).EQ.1)) GO TO 400
          NXXX2=NJA(I,IRMT)
          IF(.NOT.(NXXX2.GT.0)) GO TO 390
            DO 370 LT=1, MXLT
               IF(.NOT.(LT.LE.NXXX2)) GO TO 380
               L=A(I,IRMT,LT)
              T3=ERHD(I)*(QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,LT)/100.)*
              TERHD(L) = TERHD(L) + T3
              T4(I,L)=T4(I,L)+T3
            CONTINUE
370
380
            CONTINUE
390
          CONTINUE
400
        CONTINUE
410
      CONTINUE
420
      CONTINUE
430 CONTINUE
    DO 470 \text{ IXXX} 1=1, \text{MXL}
```

```
L=SEINO(IXXXI)
        SECD(L)=NSED(L)*CSE(L)*(1.+PIUP*MSE(L))
        TEM01=0.
        DO 440 NS=1,MXNS
          TEMO1=TEMO1+NSEB(L,NS)*TNB(NS)
 440
        CONTINUE
        SECB(L) = TEMO1 = CSE(L) = (1. + PIUP = MSE(L))
        PBDV(L)=0.
        PDDV(L)=0.
        TEM02=0.
        DO 450 NS=1,MXNS
          TEM02=TEM02+ERHAB(L,NS)
 450
       CONTINUE
        ERHA(L)=TEM02+ERHAD(L)
        SEDV(L)=U(ERHA(L)) **SEDEV(L)
        1F(.NOT.(TERHB(L).GT.0.000001.OR.TERHD(L).GT.
         0.000001)) GO TO 460
          PBDV(L) = TERHB(L) * SEDV(L) / (TERHB(L) + TERHD(L))
          PDDV(L)=TERHD(L) #SEDV(L)/(TERHB(L)+TERHD(L))
 460
        CONTINUE
 470 CONTINUE
      DO 510 IXXX1=1,MXI
        I = IXO(IXXXI)
        SECI(I)=UCTDC(I)
        DO 500 IXXX2=1,MXL
          L=SEINO(IXXX2)
          IF(.NOT.(TERHB(L).GT.0.000001)) GO TO 480
            SECI(I) = SECI(I) + (SECB(L) + PBDV(L)) *T2(I,L) / TERHB(L)
  480
          CONTINUE
          IF(.NOT.(TERHD(L).GT.0.000001)) GO TO 490
            SECI(I) = SECI(I) + (SECD(L) + PDDV(L)) *T4(I,L) / TERHD(L)
  490
          CONTINUE
  500
        CONTINUE
  510 CONTINUE
С
      RETURN
      END
```

```
SUBROUTINE ZPMEQ
```

```
С
                                                                                                                                                                                                         810625 085111682
Color the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district the district
C* COMPUTES PRIME MISSION EQUIPMENT QUANTITIES
C* FOR EACH LRU ITEM
C* ATU MOD SLR - 15 MAY 80
С
                     COMMON /I/ I
                     COMMON /INO/ INO(150)
                     COMMON /LRU/ LRU(150)
                     COMMON /MXI/ MXI
                     COMMON /MXNP/ MXNP
                     COMMON /MXNS/ MXNS
                     COMMON /NITEM/ NITEM(150,5)
                     REAL NITEM
                     COMMON /NP/ NP
                     COMMON /NPLT/ NPLT(5,10)
                     REAL NPLT
                     COMMON /NS/ NS
                     COMMON / PMEQ/ PMEQ(150)
                     COMMON /TNB/ TNB(10)
С
С
                     DO 230 IXXX1=1,MXI
                             I=INO(IXXX1)
                            TEM02=0.
                             DO 220 NS=1,MXNS
                                   TEM01=0.
                                    DO 210 NP=1,MXNP
                                           TEMO1=TEMO1+NPLT(NP,NS)*NITEM(I,NP)
       210
                                    CONTINUE
                                    TEM02=TEM02+TEM01*TNB(NS)
       220
                             CONTINUE
                             PMEQ(I)=TEMO2*FLOAT(LRU(I))
       230 CONTINUE
С
                     RETURN
                     END
```

```
SUBROUTINE ZTISQ
                                                                                                                                                                                                                          810625 085113777
Control for the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the fi
C* COMPUTES TOTAL INVESTMENT SPARES QUANTITY
C* FOR AN ITEM OF TYPE I
C* ATU MOD SLR - 15 MAY 80
                                                                                                                                                                                                                                                                                    40
\mathbf{c}
                        COMMON /DS/ DS(150)
                       COMMON /1/ I
                        COMMON /1NO/ 1NO(150)
                        COMMON /MXI/ MXI
                        COMMON /MXNS/ MXNS
                        COMMON /NFB/ NFB(150,10)
                        REAL NFB
                        COMMON /NFD/ NFD(150)
                        REAL NFD
                       COMMON /NS/ NS
                       COMMON /TISQ/ TISQ(150)
                       COMMON /TNB/ TNB(10)
C
                       DO 220 IXXX1=1,MXI
                                I=INO(IXXXI)
                               TISQ(1)=0.
                               DS(1)=F(NFD(1))
                               DO 210 NS≈1,MXNS
                                       BBS≃F(NFB(I,NS))
                                      TISQ(I)=TISQ(I)+(TNB(NS)*BBS)
                               CONTINUE
        210
                               TISQ(1)=TISQ(1)+DS(1)
         220 CONTINUE
                        RETURN
                        END
```

SUBROUTINE ZYRSQ

```
С
                                              810625 085118821
C* COMPUTES YEARLY REPLACEMENT SPARES QUANTITY
C* DUE TO AN INDIVIDUAL ITEM TYPE I
                                                          ::-
C* ATU MOD SLR - 15 MAY 80
С
     COMMON /COND/ COND(150)
     COMMON /FAIL/ FAIL(150,10)
     COMMON /I/ I
     COMMON /INO/ INO(150)
     COMMON /MXI/ MXI
     COMMON /MXNS/ MXNS
     COMMON /NHI/ NHI(150)
     COMMON /NS/ NS
     COMMON /TNB/ TNB(10)
     COMMON /YRSQ/ YRSQ(150)
C
С
     DO 230 IXXX1=1,MXI
      I = INO(IXXX1)
      CD=0.
      IF(.NOT.(NHI(I).GT.0)) GO TO 210
        CD=COND(NHI(I))
 210
      CONTINUE
      TEMO1=0.
      DO 220 NS=1,MXNS
        TEMO1=TEMO1+FAIL(I,NS)*TNB(NS)
 220
      CONTINUE
      YRSQ(I)=12.*TEM01*(1.-COND(NHI(I)))*COND(I)
 230 CONTINUE
C
     RETURN
     END
```

```
SUBROUTINE ZTOTPQ
  С
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                810625 085121658
  Colorida de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la desta de la des
  C* COMPUTES THE TOTAL QUANTITIES OF
  C* EACH ITEM TO BE PROCURED
  C* ATU MOD SLR - 15 MAY 80
  Circle to the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text
                                                   COMMON /I/ I
                                                  COMMON /INO/ INO(150)
                                                  COMMON /MXI/ MXI
                                                  COMMON /NRUC/ NRUC
                                                   REAL NRUC
                                                  COMMON /PMEQ/ PMEQ(150)
                                                  COMMON /TISQ/ TISQ(150)
                                                  COMMON /TOTPQ/ TOTPQ(150)
                                                  COMMON /YRSQ/ YRSQ(150)
 С
 С
                                                 DO 210 IXXX1=1,MXI
                                                                   I=INO(IXXX1)
                                                                  TOTPQ(I) = PMEQ(I) + TISQ(I) + NRUC*YRSQ(I)
                210 CONTINUE
C
                                                  RETURN
                                                 END
```

SUBROUTINE ZLC С 810625 085122779 C* LEARNING CURVE EFFECTS FOR ALL ITEMS OF TYPE I C* ATU MOD SLR - 15 MAY 80 C COMMON /I/ I COMMON /INO/ INO(150) COMMON /LC/ LC(150) REAL LC COMMON /MXI/ MXI С С DO 210 IXXX1=1,MXII = INO(IXXX1)LC(1)=XLEARN(1)210 CONTINUE С RETURN

END

```
FUNCTION XLEARN(I)
C
                                                                                                                                                                                                                                                          810625 085129597
C* LEARNING EFFECTS IN EQUATIONS
C* ATU MOD SLR - 20 MAY 80
С
                          COMMON /LFAC/ LFAC(150)
                          REAL LFAC
                          COMMON /TOTPQ/ TOTPQ(150)
                          COMMON /XITEMQ/ XITEMQ(150)
                          REAL N
C
С
                          XLEARN=1.
                          BI=ALCG10(LFAC(I))/ALCG10(2.)
                          N=TOTPQ(I)+XITEMQ(I)
                           IF(.NOT.(N.GT.1.0)) GO TO 210
                                    XLEARN=1./N*(1./(BI+1.)*(N**(BI+1.)-1.)+.5*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+1.)+BI/12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N**BI+12.*(N
                                            *(BI-1.)-1.))
         210 CONTINUE
С
                          RETURN
                          END
```

```
SUBROUTINE COST1
                                                 810625 085131754
C
  COMPUTES PRODUCTION COST ELEMENT-PRODC
C* ATU MOD SLR - 20 MAY 80
COMMON /HDWRIT/ HDWRIT(150,5)
     COMMON /HDWRT/ HDWRT(5)
     COMMON /1/ I
     COMMON /INO/ INO(150)
     COMMON / INTNR/ INTNR(5)
     REAL INTNR
     COMMON /INTR/ INTR(5)
     REAL INTR
     COMMON /LC/ LC(150)
     REAL LC
     COMMON /LRU/ LRU(150)
     COMMON /LUP/ LUP(150)
     REAL LUP
     COMMON /MXI/ MXI
     COMMON /MXNP/ MXNP
     COMMON /MXNS/ MXNS
     COMMON /NITEM/ NITEM(150,5)
     REAL NITEM
     COMMON /NP/ NP
     COMMON /NPLT/ NPLT(5,10)
     REAL NPLT
     COMMON /NS/ NS
     COMMON / PRODC/ PRODC
     COMMON /TERMC/ TERMC(5)
     COMMON /TERMH/ TERMH
     COMMON /TERMI/ TERMI
     COMMON /TNB/ TNB(10)
     COMMON /TOTT/ TOTT(5)
     COMMON /UP/ UP(150)
     COMMON /XUC/ XUC
С
     DO 240 NP=1, MXNP
       HDWRT(NP)=0.
       DO 220 IXXX2=1,MXI
         I = INO(IXXX2)
         LUP(I)=UP(I)*LC(I)
         HDWRIT(I,NP)=NITEM(I,NP)*LUP(I)*XUC
         IF(.NOT.(LRU(I).EQ.1)) GO TO 210
           HDWRT(NP)=HDWRT(NP)+HDWRIT(I,NP)
```

```
CONTINUE
210
     CONTINUE
220
      TEM01=0.
      DO 230 NS=1,MXNS
        TEM01=TEM01+TNB(NS)*NPLT(NP,NS)
      CONTINUE
230
      TOTT(NP)=TEM01
      TERMC(NP)=(INTNR(NP)/TOTT(NP))+INTR(NP)+HDWRT(NP)
      TERMH=TERMH+(TOTT(NP)*HDWRT(NP))
      TERMI=TERMI+(TOTT(NP)*INTR(NP))+INTNR(NP)
240 CONTINUE
    PRODC=TERMH+TERMI
    RETURN
    END
```

С

```
C
                                                                                                                                                                                                                                                                                                                 810625 085139201
Contractive and a property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of 
C* COMPUTES MODIFICATION/INSTALLATION
C* COST ELEMENT-MIC
C the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
С
                                 COMMON /AKIT/ AKIT(4,5)
                                 COMMON /FR/FR(3,5)
                                COMMON /1A/ IA
                                COMMON / IMICA/ IMICA(5)
                                REAL IMICA
                                COMMON /M/ M
                                COMMON /MIC/ MIC
                                REAL MIC
                                COMMON /MIFIX/ MIFIX(3,5)
                                REAL MIFIX
                                COMMON /MILR/ MILR(3)
                                 REAL MILR
                                COMMON /MIMH/ MIMH(4,3,5)
                                 REAL MIMH
                                COMMON /MXM/ MXM
                                COMMON /MXNP/ MXNP
                                COMMON /MXNS/ MXNS
                                COMMON /NIA/ NIA
                                COMMON /NP/ NP
                                COMMON / NPLT/ NPLT(5,10)
                                 REAL NPLT
                                COMMON /NRMI/ NRMI(5)
                                 REAL NRMI
                                COMMON / NS / NS
                                 COMMON /PDIV / PDIV(5)
                                 COMMON / RMICA/ RMICA(5)
                                COMMON /TNB/ TNB(10)
                                COMMON /XMIL/ XMIL
                                 REAL IMIC
C
Ċ
C
C....FIRST COMPUTE NON-RECURRING MOD/INSTALL COST
                                 IMIC=0.
                                RMIC=0.
                                 DO 240 NP=1,MXNP
                                            IMICA(NP)=PDIV(NP)*NRMI(NP)
                                            IMIC=IMIC+IMICA(NP)
C. ... NEXT COMPUTE RECURRING MOD/INSTALL COST
```

```
TEM02=0.
        DO 220 M=1,MXM
          TEM01=0.
          DO 210 IA=1,NIA
            TEMO1=TEMO1+MIMH(IA,M,NP)*XMIL*MILR(M)+AKIT(IA,NP)
  210
          CONTINUE
          TEM02=TEM02+FR(M,NP)*((MIFIX(M,NP)*1000.)+TEM01)
  220
        CONTINUE
        RMICA(NP)=TEM02
        TEM03=0.
        DO 230 NS=1,MXNS
          TEM03=TEM03+TNB(NS)*NPLT(NP,NS)*RMICA(NP)
  230
        CONTINUE
        RMIC=RMIC+TEM03
  240 CONTINUE
С
C.....TOTAL MOD/INSTALL COST IS THEN:
     MIC=IMIC+RMIC
С
      RETURN
      END
```

DO 230 NS=1, MXNS

```
С
                                                                                                                                                                                                                                                                                                               810625 085144025
Control of the destructive of the first control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of 
C* COMPUTES OPERATIONS COST ELEMENT-OC
Considerate and a final entral С
                                COMMON /AFC/ AFC
                                COMMON /AMPM/ AMPM(5,3)
                                COMMON /APFH/ APFH(5,3)
                                COMMON /BAFC/ BAFC(6)
                                COMMON /BOLC/ BOLC(6)
                                COMMON /BPLAT/ BPLAT(10)
                                  INTEGER BPLAT
                                COMMON /BTYPE / BTYPE (10)
                                INTEGER BTYPE
                                COMMON /CFG/ CFG(3)
                                COMMON /DRAG/ DRAG(5)
                                COMMON / FGH / FGH (5)
                                COMMON /K/ K(5)
                                REAL K
                                COMMON /LO/ LO(10)
                                COMMON /MMPD/ MMPD(5,3)
                                REAL MMFD
                                COMMON /MMPM/ MMPM(5)
                                REAL MMPM
                                COMMON /MXNP/ MXNP
                                COMMON /MXNS/ MXNS
                                COMMON /NAE/ NAE(5)
                                REAL NAE
                                COMMON /NP/ NP
                                COMMON /NPLT/ NPLT(5,10)
                                REAL NPLT
                                COMMON /NS/ NS
                                COMMON /OC/ OC
                                COMMON /OLC/ OLC
                                COMMON /OLCP/ OLCP
                                COMMON /OLCT/ OLCT
                                COMMON /PIUP, PIUP
                                COMMON / PMLR/ PMLR
                                COMMON /THRS/ THRS(5)
                                COMMON /TNB/ TNB(10)
                                COMMON /TNLR/ TNLR
C
C
С
C....FIRST COMPUTE OPERATIONAL LABOR COST (OLC)
```

```
TEMOl=0.
        DC 210 NP=1, MXNP
          TEMO1=TEMC1+NPLT(NP,NS)*TNB(NS)*MMPD(NP,LO(NS))
  210
       CONTINUE
        DS1=TEMO1#365.#PIUP#TNLR/60.
        TEMO2=0.
        DC 220 NP=1,MXNP
          TEMOC=TEMOC+NPLT(NP,NS)*TNB(NS)*MMPM(NP)*AMPM(NP,LO(NS))
  223
       CONTINUE
        DS2=TEM (2912. #P1UP#PMLR/60.
        + LCT= LCT+DS1
        # LCP= #LCP+DS2
        B LC (BTYPE (NS:)=BOLC (BTYPE (NS))+DS1+DS2
        IB=5*BPLAT(NS)
        BCLC:IF:=BCLC:IB:+DS1+DS2
  230 CINTINUE
      OLC=OLCT+OLCP
C
C.... NEXT COMPUTE ADDED FUEL COST (AFC)
      DO 250 NS=1, MXNS
        TEM03=0.
        DO 240 NP=1,MXNP
          IF(.NOT.(K(NP).GT.0.0001.AND.THRS(NP).GT.0.0001)) GO TO 240
          TEM03=TEM03+NPLT(NP,NS)*TNB(NS)*APFH(NP,LO(NS))*FGH(NP)*
            CFG(LO(NS:) #NAE(NP) #DRAG(NP) / (K(NP) #THRS(NP))
  240
       CONTINUE
        DS3=TEM03±12.±PIUP
        AFC=AFC+DS3
        BAFC(BTYPE(NS))=BAFC(BTYPE(NS))+DS3
        IB=3+BPLAT(NS)
        BAFC(IB)=BAFC(IB)+DS3
  250 CONTINUE
C
C.....TOTAL OPERATIONS COST (OC)
      OC=OLC+AFC
C
      RETURN
      END
```

```
SUBROUTINE COST4
C
                                                                                                                                                                                                                                                                                                                          810625 085151819
Control for the desire of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro
C* COMPUTES INVESTMENT SPARES COST ELEMENT-ISC
C* ATU MOD SLR - 20 MAY 80
Considerate and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
                                 COMMON /BISC/ BISC(6)
                                 COMMON /BPLAT/ BPLAT(10)
                                   INTEGER BPLAT
                                  COMMON /B: BS(150)
                                  COMMON /BTYPE/ BTYPE(10)
                                   INTEGER BTYPE
                                  COMMON /DS/ DS(150)
                                  COMMON /1/ I
                                  COMMON /1NO/ INO(150)
                                  COMMON /ISC/ ISC
                                  REAL ISC
                                  COMMON /ISCA/ ISCA(150)
                                  REAL ISCA
                                  COMMON /ISCB/ ISCB
                                  REAL ISCB
                                  COMMON /ISCD/ ISCD
                                  REAL ISCD
                                  COMMON /LC/ LC(150)
                                  REAL LC
                                  COMMON /NXI/ MXI
                                  COMMON /MXNS/ MXNS
                                   COMMON /NFB/ NFB(150,10)
                                   REAL NFB
                                  COMMON /NFD/ NFD(150)
                                  REAL NFD
                                  COMMON /NS/ NS
                                  COMMON /TISQ/ TISQ(150)
                                  COMMON /TNB/ TNB(10)
                                  COMMON /UP/ UP(150)
                                  COMMON /XUC/ XUC
С
                                  DO 220 IXXX1=1,MXI
                                             I=INO(IXXX1)
                                             ISCA(I)=TISQ(I)*UP(I)*LC(I)*XUC
                                             DO 210 NS=1, MXNS
                                                         BBSP=TNB(NS)*F(NFB(I,NS))
```

BS(I)=BS(I)+BBSP

BSPC=BBSP*UP(I)*XUC*LC(I)

BISC(BTYPE(NS))=BISC(BTYPE(NS))+BSPC

```
IB=3+BPLAT(NS)
         BISC(IB)=BISC(IB)+BSPC
         ISCB=ISCB+BSPC
 210
      CONTINUE
       DS(I)=F(NFD(I))
       ISCD=ISCD+DS(I)*UP(I)*XUC*LC(I)
 220 CONTINUE
     TEM01=0.
     DO 230 IXXX1=1,MXI
       I=INO(IXXX1)
       TEMO1=TEMO1+ISCA(I)
 230 CONTINUE
      ISC=TEM01
С
      RETURN
      END
```

```
810625 085156325
Contract of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the fi
                 COMPUTES REPLACEMENT SPARES COST ELEMENT-RSC
                 ATU MOD SLR - 20 MAY 80
Contractive data and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contractive and a contrac
C
                               COMMON /BPLAT/ BPLAT(10)
                               INTEGER BPLAT
                               COMMON /BRSC/ BRSC(6)
                               COMMON /BTYPE/ BTYPE(10)
                               INTEGER BTYPE
                               COMMON /COND/ COND(150)
                               COMMON /FAIL/ FAIL(150,10)
                               COMMON /I/ I
                               COMMON /1NO/ INO(150)
                               COMMON /LC/ LC(150)
                               REAL LC
                              COMMON /LRU/ LRU(150)
                              COMMON /MXI/ MXI
                              COMMON /MXNS/ MXNS
                               COMMON /NHI/ NHI(150)
                               COMMON /NRUC/ NRUC
                              REAL NRUC
                              COMMON /NS/ NS
                              COMMON /PIUP/ PIUP
                               COMMON /RM/ RM(150)
                               COMMON /RSC/ RSC
                               COMMON /RSCA/ RSCA(150)
                               COMMON /TNB/ TNB(10)
                               COMMON /UP/ UP(150)
                               COMMON /XUC/ XUC
                               DO 240 IXXX1=1, MXI
                                         I≈INO(IXXX1)
                                        TEM01=0.
                                         DO 210 NS=1, MXNS
                                                   TEMO1=TEMO1+FAIL(I,NS)*TNB(NS)
          210
                                        CONTINUE
                                         TEMP=12.*TEMO1*(1.-COND(NHI(I)))
                                         RSCA(I) = TEMP*((NRUC*LC(I)+(PIUP-NRUC))*COND(I)+PIUP*(1.-COND(I))
                                                   *RM(I))*UP(I)*XUC
                                         CD=0.
                                         IF(.NOT.(LRU(I).EQ.0)) GO TO 220
                                                   CD=COND(NHI(I))
           220
                                         CONTINUE
```

C

```
810625 085200197
Considerate destructiva de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la considerate del la
                 COMPUTES ON-EQUIPMENT MAINTENANCE
C* COST ELEMENT-ONMC
Considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate de la considerate 
C
                                COMMON /APFH/ APFH(5,3)
                                COM'ON /BLR/ BLR
                                COMMON /BMF/ BMF
                                COMMON /BONMC/ BONMC(6)
                                COMMON /BPLAT/ BPLAT(10)
                                INTEGER BPLAT
                                COMMON /BTYPE/ BTYPE(10)
                                INTEGER BTYPE
                                COMMON / FAIL/ FAIL(150,10)
                                COMMON /FPR/ FPR(150)
                                COMMON /I/ I
                                COMMON / INO/ INO(150)
                                COMMON / IPCF/ IPCF(150)
                                REAL IPCF
                                COMMON /KFAC/ KFAC(4)
                                REAL KFAC
                                COMMON /LE/ LE(5)
                                COMMON /LO/ LO(10)
                                COMMON /LRU/ LRU(150)
                                COMMON /MTBMI/ MTBMI(150,4)
                                REAL MTBMI
                                COMMON /MXI/ MXI
                                COMMON /MXNP/ MXNP
                                COMMON /MXNS/ MXNS
                                COMMON /NITEM/ NITEM(150,5)
                                REAL NITEM
                                COMMON /NP/ NP
                                COMMON /NPLT/ NPLT(5,10)
                                REAL NPLT
                                COMMON /NS/ NS
                                COMMON /ONMC/ ONMC
                                COMMON /ONMCA/ ONMCA(150)
                                COMMON /PIUP/ PIUP
                                COMMON /RIP/ RIP(150)
                                COMMON /RMH/ RMH(150)
                                COMMON /TFAC/ TFAC(5)
                                COMMON /TNB/ TNB(10)
                                COMMON /XFPR/ XFPR
                                COMMON /XFR/ XFR
```

```
C
      DO 250 IXXX1=1,MXI
        I=INO(IXXXI)
        IF(.NOT.(LRU(1).EQ.1)) GO TO 250
        DO 240 NS=1, MXNS
          TFL=TNB(NS)*FAIL(1,NS)
          DS1=12.*PIUP*TFL*(1.+XFPR*FPR(I))*RMH(I)*BMF*BLR
          IF(.NOT.(RIP(1).LT..999)) GO TO 210
            DS2=12.*PIUP*TFL*RIP(I)*IPCF(I)*BMF/(1.-RIP(I))
  210
          CONTINUE
C
C...... IF RIP(1)=1 COMPUTE NO. OF NON-REMOVED FAILURES
          IF(.NOT.(RIP(I).GE..999)) GO TO 230
            TEM01=0.
            DO 220 NP=1,MXNP
              IF(.NOT.(NITEM(1,NP).GT..001)) GO TO 220
              TEMO1=TEMO1+NITEM(I,NP)*TFAC(NP)*KFAC(LE(NP))/MTBMI(1,
                LE(NP))*NPLT(NP,NS)*APFH(NP,LO(NS))
  220
            CONTINUE
            TFL=XFR*TEMO1*TNB(NS)
            DS2=12, *F1UP*TFL*IPCF(I)*BMF
  230
          CONTINUE
          ONMCA(I)≈ONMCA(I)+DS1+DS2
          BONMC(BTYPE(NS))=BONMC(BTYPE(NS))+DS1+DS2
          IB=3+BPLAT(NS)
          BONMC(IB) = BONMC(IB) + DS1 + DS2
  240
        CONTINUE
        ONMC=ONMC+ONMCA(I)
  250 CONTINUE
С
      RETURN
      END
```

```
810625 085211880
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C*:
                  COMPUTES OFF-EQUIPMENT MAINTENANCE
C* COST ELEMENT-OFMC
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С
                              COMMON /BCMH/ BCMH(150)
                              COMMON /BLR/ BLR
                              COMMON /BMF/ BMF
                              COMMON /BMH/ BMH(150)
                              COMMON /BOFMC/ BOFMC(6)
                              COMMON /BPLAT/ BPLAT(10)
                               INTEGER BPLAT
                              COMMON /BTYPE/ BTYPE(10)
                               INTEGER BTYPE
                              COMMON /COND/ COND(150)
                              COMMON /CPPC/ CPPC
                              COMMON /CPPD/ CPPD(3)
                              COMMON /DLR/ DLR
                              COMMON /DMF/ DMF
                              COMMON /DMH/ DMH(150)
                              COMMON /FAIL/ FAIL(150,10)
                              COMMON /FPR/ FPR(150)
                              COMMON /I/ I
                              COMMON /INO/ INO(150)
                              COMMON /LO/ LO(10)
                              COMMON /LRU/ LRU(150)
                              COMMON /MRF/ MRF
                              REAL MRF
                              COMMON /MRO/ MRO
                              REAL MRO
                              COMMON /MXI/ MXI
                              COMMON /MXNS/ MXNS
                              COMMON /NHB/ NHB(10)
                              COMMON /NHI/ NHI(150)
                              COMMON /NRTS/ NRTS(150)
                              REAL NRTS
                              COMMON /NS/ NS
                              COMMON /OFMC/ OFMC
                              COMMON /OFMCA/ OFMCA(150)
                              COMMON /OFMCB/ OFMCB
                              COMMON /OFMCD/ OFMCD
                              COMMON /PIUP/ PIUP
                              COMMON /RIP/ RIP(150)
                              COMMON /RTS/ RTS(150)
                              COMMON /SR/ SR
```

```
COMMON /TCFB/ TCFB
      COMMON /TCFD/ TCFD
      COMMON /TNB/ TNB(10)
      COMMON /TR/ TR
      COMMON /WT/ WT(150)
      COMMON /XFPR/ XFPR
      REAL NHNRT
      REAL NHRT
С
C
      DO 260 IXXX1=1,MXI
        I = INO(IXXX1)
        NHRT=0.
        NHNRT=0.
        IF(.NOT.(LRU(I).EQ.0)) GO TO 210
          NHRT=RTS(NHI(I))
          NHNRT=NRTS(NHI(I))
 210
        CONTINUE
       XF=XFPR#FPR(1)
        DO 250 NS=1,MXNS
          SATLRU=0.
          IF(.NOT.(BTYPE(NS).EQ.3.AND.LRU(I).EQ.1)) GO TO 220
            SATLRU≈1.
 220
          CONTINUE
          ACFB=(FLOAT(LRU(I))+NHRT)*((1.+XF)*BCMH(I)+RTS(I)*BMH(I))*BMF*
            BLR+SATLRU*(1,+XF)*2.*CPPC*WT(I)
          IF(.NOT.(RIP(I).LT.0.999)) GO TO 230
            T1 = RIP(I)/(1.-RIP(I))
 230
          CONTINUE
          ACFB≈ACFB+(T1*MRO+MRF+SR+TR)*BLR
          ACFD≈(FLOAT(LRU(I))+NHRT)*(NRTS(I)*DMH(I)*DMF*DLR+(2.*NRTS(I)+
            COND(I))*CPPD(LO(NS))*WT(I))+NHNRT*(1.-COND(I))*DMH(I)*DMF*
            DLR
          TCFB=12.*PIUP*TNB(NS)*FAIL(I,NS)*ACFB
          TCFD=12.*PIUP*TNB(NS)*FAIL(I,NS)*ACFD
          OFMCA(I)=OFMCA(I)+TCFB+TCFD
          OFMCB=OFMCB+TCFB
          OFMCD=OFMCD+TCFD
          IB=BTYPE(NS)
          IB1=3+BPLAT(NS)
          IF(.NOT.(IB.EQ.3)) GO TO 240
            IB=2
            IB1=3+BPLAT(NHB(NS))
 240
          CONTINUE
          BOFMC(IB)=BOFMC(IB)+TCFB
          BOFMC(IB1)=BOFMC(IB1)+TCFB
```

250 CONTINUE
260 CONTINUE
0FMC=OFMCB+OFMCD
C
RETURN
END

SUBROUTINE COST8

INTEGER SETYPE

```
C
                                                                                                                                                                                                                                                                                            810625 085224863
Currente destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructives destructi
C* COMPUTES SUPPORT EQUIPMENT COST ELEMENT-SEC
C# ATU MOD SLR - 27 MAY 80
Considerate destruit of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the cont
С
                               COMMON / BPLAT; BPLAT(10)
                               INTEGER BPLAT
                              COMMON /BSECC/ BSECC(6)
                              COMMON /BSECP/ BSECP(6)
                              COMMON / ETYPE/ BTYPE(10)
                               INTEGER BTYPE
                               COMMON /CSE/ CSE(120)
                              COMMON /DUM/ DUM
                               INTEGER DUM
                               COMMON /L/ L
                              COMMON (MSE | MSE (120)
                               REAL MSE
                               COMMON / MXI / MXI
                               COMMON /MXL/ MXL
                               COMMON /MXNS/ MXNS
                               COMMON /NS/ NS
                               COMMON NSEB. NSEB(120,10)
                               REAL NSEB
                              COMMON (NSED) (NSED)(120)
                               REAL NSED
                               COMMON SPICES PICE
                               COMMON (SECRO) SECRO
                               COMMON /SECBP SECBP
                               COMMON /SECC / SECC
                               COMMON /SECDC: SECDC
                               COMMON SECOP SECOP
                               COMMON /SECIC/ SECIC
                               COMMON /SECII/ SECII
                               COMMON /SECIP SECIP
                               COMMON / SECP/ SECP
                               COMMON /SECR: SECR
                               COMMON /SECRC/ SECRC
                               COMMON / SECRP SECRP
                               COMMON /SEDC/ SEDC
                               COMMON /SEDV/ SEDV(120)
                               COMMON /SEINO/ SEINC(120)
                               INTEGER SEINO
                               COMMON /SEPC/ SEPC
                               COMMON SETYPE / SETYPE (120)
```

```
COMMON /TNB/ TNB(10)
      COMMON /TSEC/ TSEC
      COMMON /TUCTDC/ TUCTDC
      INTEGER DUMM
C
      DO 220 IXXX1=1,MXL
        L=SEINO(IXXXI)
        TEM01=0.
        DO 210 NS=1, MXNS
          TEMO1=TEMO1+(NSEB(L,NS)*TNB(NS))
  210
        CONTINUE
        SEPC=(TEMO1+NSED(L))*CSE(L)*(1.+PIUP*MSE(L))+SEPC
        SEDC=SEDC+SEDV(L)
  220 CONTINUE
      SEDC=SEDC+TUCTDC
      TSEC=SEPC+SEDC
      DO 350 IXXX1=1,MXL
        L=SEINO(IXXX1)
        DO 230 NS=1, MXNS
          TCSEL≃NSEB(L,NS)*TNB(NS)*CSE(L)
          SECII=SECII+TCSEL
          SECR=SECR+TCSEL*PIUP*MSE(L)
  230
        CONTINUE
        SECR=SECR+NSED(L)*CSE(L)*PIUP*MSE(L)
        TEM02=0.
        DO 240 NS=1,MXNS
          TEM02=TEM02+NSEB(L,NS)*TNB(NS)
  240
        CONTINUE
        SUMM=TEM02
        IF(.NOT.(SETYPE(L).NE.3)) GO TO 290
          SECDC=SECDC+NSED(L)*CSE(L)*(1.+PIUP*MSE(L))
          SECIC=SECIC+(SUMM+NSED(L))*CSE(L)
          SECRC=SECRC+(SUMM+NSED(L))*CSE(L)*PIUP*MSE(L)
          DO 260 DUM=1.3
            TEM03=0.
            DO 250 NS=1,MXNS
              IF(.NOT.(BTYPE(NS).EQ.DUM)) GO TO 250
              TEM03=TEM03+NSEB(L,NS)*TNB(NS)
  250
            CONTINUE
             BSECC(DUM)=BSECC(DUM)+(TEM03)*CSE(L)*(1.+PIUP*MSE(L))
  260
          CONTINUE
          DO 280 DUM=4,6
            DU::M=DUM-3
            TEM64=0.
             DO 270 NS=1, MXNS
               IF(.NOT.(BPLAT(NS).EQ.DUMM)) GO TO 270
```

```
TEMO4=TEMO4+NSEB(L,NS)*TNB(NS)
270
          CONTINUE
          BSECC(DUM)=BSECC(DUM)+(TEMO4)*CSE(L)*(1.+PIUP*MSE(L))
280
        CONTINUE
290
      CONTINUE
      IF(.NOT.(SETYPE(L).EQ.3)) GO TO 340
        SECIP=SECIP+(SUMM+NSED(L))*CSE(L)
        SECRP=SECRP+(SUMM+NSED(L))*CSE(L)*PIUP*MSE(L)
        SECDP=SECDP+(NSED(L)*CSE(L)*(1.+PIUP*MSE(L)))
        DO 316 DUM=1,3
          TEM05=0.
          DO 300 NS=1, MXNS
            THOUNGER (BTYPE (NS) , EQ. DUM)) GO TO 300
            TEMOS=TEMOS+NSEB(L,NS)*TNB(NS)
          CONTINUE
300
          BSECP(DUM)=BSECP(DUM)+TEM05*CSE(L)*(1.+PIUP*MSE(L))
        CONTINUE
310
        DO 330 DUM=4,5
          DUMM=DUM-3
          TEMOp=0.
          DO 320 NS=1,MXNS
            IF(.NOT.(BPLAT(NS).EQ.DUMM)) GO TO 320
            TEMO6=TEMO6+NSEB(L,NS)*TNB(NS)
320
          CONTINUE
          BSECH(DUM)=BSECH(DUM)+(TEM06)*CSE(L)*(1.+PIUP*MSE(L))
330
        CONTINUE
340
     CONTINUE
350 CONTINUE
    TEM07=0.
    DO 360 DUM=1.3
      TEMO?=TEMO?+BSECC(DUM)
360 CONTINUE
    SECBC=TEMO7
    TEM08=0.
    DO 370 DUM=1.3
      TEM08=TEM08+BSECP(DUM)
370 CONTINUE
    SECBP=TEM08
    SECII=SECII+SEDC
    SECC=SECIC+SECRC
    SECP=SECIP+SECRP
    RETURN
    END
```

C

SUBROUTINE COST9

С

```
810625 085237027
С
Considerate a la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de 
C* COMPUTES ITEM INVENTORY MANAGEMENT
C* COST ELEMENT-IIMC
С
                   COMMON /BIIMC/ BIIMC(6)
                   COMMON / BPLAT/ BPLAT(10)
                   INTEGER BPLAT
                   COMMON /BTYPE/ BTYPE(10)
                   INTEGER BTYPE
                   COMMON /COND/ COND(150)
                   COMMON /FAIL/ FAIL(150,10)
                   COMMON /I/ I
                   COMMON / LIMC/ LIMC
                   REAL IIMC
                   COMMON / IIMCA/ IIMCA(150)
                   REAL LIMCA
                   COMMON /IIMCB/ IIMCB
                   REAL LIMCB
                   COMMON / LIMCD/ LIMCD
                   REAL LIMCD
                   COMMON / LIMCI/ LIMCI
                   REAL LIMCI
                   COMMON / LIMCR/ LIMCR
                   REAL LIMOR
                   COMMON / IMC/ IMC
                   REAL IMC
                   COMMON / INO, INO(150)
                   COMMON /LRU/ LRU(150)
                   COMMON /MXI/ MXI
                   COMMON /MXNS/ MXNS
                   COMMON /NFB/ NFB(150,10)
                   REAL NFB
                   COMMON /NHI/ NHI(150)
                   COMMON /NS/ NS
                   COMMON /PA/ PA(150)
                   COMMON /PIUP/ PIUP
                   COMMON /RMC/ RMC
                   COMMON /RTS/ RTS(150)
                   COMMON /SA/ SA
                   COMMON /SAT/ SAT(10)
                   COMMON /TNB/ TNB(10)
                   REAL IUT
                   REAL NHCD
```

```
\mathbb{C}
                                                             DO 240 1XXX1=1.MX1
                                                                                   T = I \times O(T \times X \times T)
                                                                                   (j=j,\ell,jM,T_1^{*})
                                                                                DO 210 NS=1, MENS
                                                                                                  (PRACIETYMONETHORRALIST,NS)
                      210
                                                                               CONTINUE
                                                                                  TOTELEN T
                                                                                   NHCD=N.
                                                                                   \mathrm{TF} = \mathrm{Ner} \, \mathrm{T} \, , \quad \mathrm{LKU}_{\mathrm{C}} \, \mathrm{T}_{\mathrm{C}} \, , \mathrm{EQ}_{\mathrm{C}} \, \, \mathrm{S}_{\mathrm{C}} + \mathrm{GC}_{\mathrm{C}} \, \mathrm{TO}_{\mathrm{C}} \, \mathrm{220}_{\mathrm{C}}
                                                                                               NATIONAL VALUE OF
                                                                                CINTINCE
                      220
                                                                               \frac{\operatorname{CEA} + \operatorname{DA}}{\operatorname{CEA}} = \frac{\operatorname{CEA} + \operatorname{CA}}{\operatorname{CEA}} = \frac{\operatorname{CEA}}{\operatorname{CEA}} = \frac{\operatorname{CEA}
                                                                                                     RISHAMINT F Nee I,NS (), 1. DETNB(NS)
                                                                                                  POIS=01.-SATONS:)#CORTS(IJ#NFB(I,NS))#TNB(NS)
CB=01UT0 BUS+01US#CPA)#SA
UTMUA-1 #1.MCA-11+CB
UTMUB#UTMUB+0B
                                                                                                      BIIMC(ETYPE(NS) =BIIMC(BTYPE(NS))+CB
                                                                                                      1B=3+FPLAT.NS;
                                                                                                     BICMOSTRUMBILEMBELER 1+CB
                                                                                                  TIMERALIMENTAL
                                                                         CONTINUE
                      230
                                                                                CD=ICTA(I.-CPA)(CU(1.-NHCD))*(IMC+PICP*RMC)
                                                                                   L^{\frac{1}{2}}M\mathbb{C}A + L^{\frac{1}{2}} = L^{\frac{1}{2}}M\mathbb{C}A + L^{\frac{1}{2}} + \mathbb{C}D.
                                                                                   IIMCD=IIMCD+CD
                                                                                   11MCI="1MCI+"1T#.1.+CPA")#U(1.-NHCD)#IMC
                                                                                   IIMOR=.IMOR+IITM:I.+OPA;#U(I.+NHCD)*PIUP*RMC
                      240 CONTINUE
                                                              IIMC=[IMCR*:[MCD]
C
                                                             RETURN
                                                             END
```

SUBROUTINE COSTIO

COMMON /OFMC/ OFMC

```
C
                                                 810625 085249437
C* CALCULATES TECH ORDER COST - STDC
C* ATU MOD SLK - 28 MAY 80
C
     COMMON /A/ A(150,4,3)
     INTEGER A
     COMMON / ACPP / ACPP
     COMMON / BDATA / BDATA
     INTEGER BDATA
     COMMON /5TDC: BTDC(10)
     COMMON / BTYPE ' BTYPE (10)
     INTEGER BTYPE
     COMMON / DATAB/ DATAB(150)
     INTEGER DATAB
     COMMON /DATAD/ DATAD(150)
     INTEGER DATAD
     COMMON /DATAS/ DATAS(120)
     INTEGER DATAS
     COMMON /DDATA/ DDATA
     INTEGER DDATA
     COMMON /EBCBI/ EBCBI(150,10)
     COMMON /ERHAB/ ERHAB(120,10)
     COMMON /ERHAD/ ERHAD(120)
     COMMON /ERHD/ ERHD(150)
     COMMON /ERTBI/ ERTBI(150,10)
     COMMON /I/ I
     COMMON /INO/ INO(150)
     COMMON / IRMIN/ IRMIN(150,4)
     COMMON / IRMT/ IRMT
     COMMON /L/ L
     COMMON /LT, LT
     COMMON /MXI/ MXI
     COMMON /MXIRMT/ MXIRMT
     COMMON /MXL/ MXL
     COMMON /MXLT/ MXLT
     COMMON /MXNS/ MXNS
     COMMON /NJA/ NJA(150,4)
     COMMON /NRM/ NRM(150)
     COMMON /NS/ NS
     COMMON /NSEB/ NSEB(120,10)
     REAL NSEB
     COMMON /NSED/ NSED(120)
     REAL NSED
```

```
COMMON , OFMCA/ OFMCA(150)
      COMMON /ONMO: ONMO
      COMMON /ONMCA ( ONMCA(150)
      COMMON /PIUP/ PIUP
      COMMON /PPSE/ PPSE(150,120)
      COMMON /QSA/ QSA/150,4,3)
      COMMON / RCPP - RCPP
      COMMON /RM1 = RMI + 150, 10)
      INTEGER RMI
      COMMON > SEINO : SEINO(120)
      INTEGER SEINO
      COMMON (SETDO) SETDO(120)
      COMMON STDC STDC
      COMMON ASTROLL STROL
      COMMON STDOR STDOK
      COMMON TIPE TECCISOR
      COMMON /TNB : TNB(10)
      COMMON (TNSE TNSE(120)
      COMMON TUCPP UCPP
      INTEGER SECDI
      DIMENSION SECODE (120)
      DIMENSION SUM(120)
      DIMENSION TERHAB(120)
      DIMENSION TQSA(120)
C
C
      SUM3=0.
      SUM2=0.
      TERM2=0.
      DO = 50 - 1XXX1 = 1, MXL
        L=SEINO: INXXI)
        TEMO1=0.
        DO 210 SS=1,MXNS
          TF(.NOT.(BTYPE(NS).EQ.1)) GO TO 210
          TEMO 1=TEMO 1+TNB (NS) \pmNSEB (L, NS)
  210
        CONTINUE
        TI=TEMO1
        TEM02=0.
        DO 220 NS=1, MXNS
          IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 220
          TEMO2=TEMO2+TNB(NS)*NSEB(L,NS)
  220
        CONTINUE
        T2=TEM02
        T7=T1+T2+NSED(L)
        TEM(t3=0).
        DO 230 NS=1,MXNS
          TEMOD=TEMO3+NSEB(L,NS)
```

```
230
       CONTINUE
        TNSE(L)=TEM03+NSED(L)
        SUM3=SUM3+U(TNSE(L))*FLOAT(DATAS(L))
        TEM04=0.
        DO 240 NS=1, MXNS
         TEM04=TEM04+TNB(NS)*U(NSEB(L,NS))
 240
       CONTINUE
        SETDC(L)=U(T7)*FLOAT(DATAS(L))*(ACPP+RCPP+(PIUP-1.)*UCPP)+RCPP*
         TEMO4*FLOAT(DATAS(L))
 250 CONTINUE
      DO 260 IXXX1≈1,MXI
        I=INO(IXXXI)
        SUM2=SUM2+(FLOAT(DATAD(I))+FLOAT(DATAB(I)))
 260 CONTINUE
      TERM1=(FLOAT(DDATA+BDATA)+SUM2+SUM3)*(ACPP+RCPP+(PIUP-1.)*UCPP)
      DO 290 NS=1, MXNS
        TEM05=0.
        DO 270 IXXX2=1,MXI
          I=INO(IXXX2)
          TEMO5=TEMO5+FLOAT(DATAB(I))
  270
        CONTINUE
        TEM06=0.
        DO 280 IXXX2=1,MXL
          L=SEINO(1XXX2)
          TEM06=TEM06+U(NSEB(L,NS))*FLOAT(DATAS(L))
  280
        CONTINUE
        BTDC(NS)=TNB(NS)*(FLOAT(BDATA)+TEM05+TEM06)*RCPP
        TERM2=TERM2+BTDC(NS)
  290 CONTINUE
      STDC=TERM1+TERM2
      STDCI=STDC-(FLOAT(DDATA+BDATA)+SUM2+SUM3)*(PIUP-1.)*UCPP
      STDCR=STDC-STDCI
С
C....CALCULATE TDC(I)
      DO 460 IXXX1=1,MXI
        I = INO(IXXX1)
        PPTM=(ONMCA(I)+OFMCA(I))/(ONMC+OFMC)
        DO 310 IXXX2=1,MXL
          L=SEINO(IXXX2)
          TEM07=0.
          DO 300 NS=1,MXNS
            TEMO7=TEMO7+TNB(NS)*ERHAB(L,NS)
  300
          CONTINUE
          TERHAB(L)=TEM07
          SECODE(L)=0.
          SUM(L)=0.
          TQSA(L)=0.
```

```
PPSE(I Li=0)
310
      CONTINUE
      NXXX1=NRM(1)
      IF(.NOT.(NXXX).GT.0)) GO TO 400
        DO 380 IRMT=1,MXIRMT
          IF(.NOT.(IRMT.LE.NXXXI)) GO TO 390
          NXXX2=NJA(I,IRMT)
          1F(.NOT.(NNXX2.GT.0)) GO TO 370
            DO 350 LT=1,MXLT
               IF( N)T.(LT.LE.NXXX2)) GO TO 360
               L=A(1,1RMT,LT)
               IF. NOT (IRMIN(I, IRMT).EQ.1)) GO TO 320
                 SECTION SECTION (QSA(I, IRMT, LT)/100.)
                 SECOUS (LosFLOAT (SECDI)
                 TOSA: L)=QSA(I, IRMT, LT)-AINT(QSA(I, IRMT, LT)/100.)=100.
              CONTINGE
320
              DO 340 NS=1, MXNS
                 IF(.NOT.(IRMIN(I,IRMT).EQ.RMI(I,NS))) GO TO 330
                   TQSAI = QSA(I,IRMT,LT) - AINT(QSA(I,IRMT,LT)/100.)*100.
                   SECDI=(INT(QSA(I,IRMT,LT)/100.)-I)
                   ST1=U(FLOAT(SECD1)) *TNB(NS) *EBCBI(I,NS)
                   SECHI=(5-INT(QSA(I,IRMT,LT)/100.))*INT(QSA(I,IRMT,
                   ST2=U FLOAT (SECD1) ) TNB(NS) ERTBI(I,NS)
                   SUM(L) = SUM(L) + U(TOSA1) + (ST1 + ST2)
330
                 CONTINUE
              CONTINUE
340
            CONTINUE
350
            CONTINUE
360
          CONTIN' L
370
        CONTINUE
380
        CONTINUE
390
      CONTINUE
400
      DO 420 IXXXXX-1, MXL
        L=SEINO(INXX2)
        T8=ERHAD(L)+TERHAB(L)
        IF (.NOT. (TS.GE.0.000001)) GO TO 410
          PPSE(1,L) = (U(TQSA(L))*U(SECODE(L))*ERHD(1)+SUM(L))/T8
410
        CONTINUE
420
      CONTINUE
      TEM08=0.
      DO 430 IXXX2=1,MXL
        L=SETNO(TXXX2)
        TEMO8 = TEMO8 + PPSE(I,L) * FLOAT(DATAS(L))
430
      CONTINUE
      TEMIO=0.
      DO 450 NS=1,MXNS
```

```
TEM09=0.

DO 440 IXXX3=1,MXL

L=SEINO(IXXX3)

TEM09=TEM09+PPSE(I,L)*U(NSEB(L,NS))*FLOAT(DATAS(L))

440 CONTINUE

TEM10=TEM10+TNB(NS)*(PPTM*FLOAT(BDATA)+FLOAT(DATAB(I))+TEM09)

450 CONTINUE

TDC(I)=(PPTM*FLOAT(DDATA+BDATA)+FLOAT(DATAD(I))+FLOAT(DATAB(I))+

+ TEM08)*(ACPP+RCPP+(PIUP-1.)*UCPP)+RCPP*TEM10

460 CONTINUE

C

RETURN
END
```

SUBROUTINE COST11

COMMON /TEFM/ TEFM

```
С
                                                                                                                                                                             810625 085349160
Contraction to the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the sele
C* CALCULATES MAINTENANCE TRAINING COST - MTRC
COMMON /BMTRC/ BMTRC
                  COMMON /COND/ COND(150)
                  COMMON /CPD1/ CPD1
                  COMMON /CPD2/ CPD2
                  COMMON /DMTRC/ DATRC
                  COMMON /ERTBI/ ERTBI(150,10)
                  COMMON /HPD1/ HPD1
                   INTEGER HPD1
                  COMMON /HPD2/ HPD2
                   INTEGER HPD2
                  COMMON /I/ I
                  COMMON / IMTRC - IMTRC
                  REAL IMTRO
                  COMMON /INO/ INO(150)
                  COMMON /MTRC/ MTRC
                  REAL MTRC
                  COMMON /MTRC1 / MTRC1(150)
                  REAL MTRCI
                  COMMON /MXI/ MXI
                  COMMON / MIND / MIND
                  COMMON /MXNS : MXNS
                  COMMON /NITEM/ NITEM(150,5)
                   REAL NITEM
                  COMMON /NP/ NP
                  COMMON /NS/ NS
                   COMMON /PALI/ PALI
                  COMMON /PAL2B: PAL2B
                   COMMON /PAL2D / PAL2D
                   COMMON /PIUP PIUP
                   COMMON /QTYP1/ QTYP1
                   INTEGER OTYPI
                   COMMON /QTYP2B/ QTYP2B
                   INTEGER GTYP2B
                  COMMON /QTYP2D/ QTYP2D
                   INTEGER QTYP2D
                   COMMON /RMTRC/ RMTRC
                   COMMON /SPC1/ SPC1
                   INTEGER SECT
                   COMMON /SPC2/ SPC2
                   INTEGER SPC2
```

```
COMMON /TIME1/ TIME1(150)
    INTEGER TIME1
   COMMON /TORB/ TORB
   COMMON /TORD/ TORD
   COMMON /TRAVB/ TRAVB
   COMMON /TRAVID/ TRAVID
   COMMON /TYP2TF/ TYP2TF
   COMMON /T2BA/ T2BA
   COMMON /T2DA/ T2DA
   REAL ITPF1
   REAL ITPF2
   REAL ITPF3
   REAL ITPF4
   REAL ITPF5
   REAL NIUSED
   NIUSED=0
   TEMP1=0
   T1=0.
   T2DA=0.
   T2BA=0.
   DO 220 IXXX1=1,MXI
      I=INO(IXXX1)
      T1=T1+TIME1(I)
      T2DA=TIME1(I)*U(1-COND(I))+T2DA
      TEMO1=0.
      DO 210 NS=1,MXNS
       TEMO1=TEMO1+ERTBI(I,NS)
210
     CONTINUE
     TEMP=TEM01
     T2BA=T2BA+TIME1(I)+U(TEMP)
220 CONTINUE
   T2DA=T2DA*TYP2TF
   T2BA=T2BA*TYP2TF
   TEMP=(T2DA*QTYP2D*(1.+(PIUP-1.)*TORD)+T2BA*QTYP2B*(1.+(PIUP-1.)*
    TORB))/(HPD2*SPC2)
    IMTRC=AINT((T2DA*QTYP2D+T2BA*QTYP2B)/(HPD2*SPC2)+.9)*CPD2+QTYP2D*
     -(AINT(T2DA/HPD2+,9)*PAL2D+TRAV1D*U(T2DA))+QTYP2B*(AINT(T2BA/
   + HPD2+,9)*PAL2B+TRAVB*U(T2BA))+TEFM
   MTRC=AINT(TEMP+, 9)*CPD2+(1,+(PIUP-1,)*TORD)*QTYP2D*(AINT(T2DA/
   + HPD2+.9)*PAL2D+TRAV1D*U(T2DA))+(1.+(PIUP-1.)*TORB)*QTYP2B*
     -(AINT(T2BA/HPD2+.9)*PAL2B+TRAVB*U(T2BA))+TEFM
    IF(.NOT.((HPD1.GT.0.00001).AND.(SPC1.GT.0.00001))) GO TO 230
      MTRC=MTRC+AINT(T1/HPD1+.9)*AINT(QTYP1/SPC1+.9)*CPD1+QTYP1*
       (AINT(T1/HPD1+.9)*PAL1+TRAV1D*U(T1))
      IMTRC=IMTRC+AINT(T1/HPD1+.9)*AINT(QTYP1/SPC1+.9)*CPD1+QTYP1*
```

```
(AINT(T1/HPD1+.9)*PAL1+TRAV1D*U(T1))
230 CONTINUE
   RMTRC=MTRC - IMTRC
    BMTRC=0.
   T2=QTYP2D*T2DA+QTYP2B*T2BA
    IF(.NOT. (T2.GE.O.000001)) GO TO 240
      BMTRC = (OTYP2B*T2BA)/T2*AINT(TEMP+.9)*CPD2+(1.+(PIUP-1.)*TORB)*
        QTYP2B*(AINT(T2BA/HPD2+.9)*PAL2B+TRAVB*U(T2BA))
240 CONTINUE
    DMTRC=MTRC-BMTRC
    DO 270 1XXXI=1,MXI
      T = INO(IXXXI)
      TEM02=0.
     DO 250 NP=1,MXNP
        TEMO2=TEMO2+NITEM(I,NP)
250
     CONTINUE
     TEMP1=TEM02
      IF(.NOT.(TEMP1.GT.0)) GO TO 260
        NIUSED=NIUSED+1.
260
     CONTINUE
270 CONTINUE
   DO 380 1XXX1=1, MXI
      I=INO(IXXXI)
      ITP\Gamma1=0.
      ITPF2=0.
      ITFF3=0.
      ITPF4=0.
      ITPF5=0.
     TEM03=0.
      DO 280 NP=1, MXNP
       TEMO3=TEMO3+NITEM(I,NP)
280
     CONTINUE
      TEMP1=TEMOS
      IF(.NOT (T1.GT.0.000001)) GO TO 290
        ITPFI=TIME1(1)/T1
290
     CONTINUE
     TEM04=0
      DO 300 NS=1,MXNS
        TEMO4=TEMO4+ERTBI(I,NS)
300
     CONTINUE
     TEMP=TEM04
      T2=QTYP2D*T/DA+QTYP2B*T2BA
      IF(.NOT.(T2.GE.0.000001)) GO TO 310
        ITPF2=TYP2TF*TIME1(I)*(QTYP2D*U(1.-COND(I))+QTYP2B*U(TEMP))*
          1. T2
310
     CONTINUE
      IF(.NOT.:T2DA.GE.0 000001)) GO TO 320
```

```
ITPF3=TYP2TF*TIME1(I)*U(1.-COND(I))/T2DA
320
      CONTINUE
      IF(.NOT.(T2BA.GE.0.000001)) GO TO 330
        ITPF4=TYP2TF*TIME1(I)*U(TEMP)/T2BA
330
      CONTINUE
      T3=QTYP1*T1+QTYP2D*T2DA+QTYP2B*T2BA
      ITPF5=1/NIUSED
      IF(.NOT.((T3.LE.0.000001).OR.(T1.LE.0.000001))) GO TO 350
        IF(.NOT.(TEMP1.LT.0.000001)) GO TO 340
          ITPF5=0.
340
        CONTINUE
350
      CONTINUE
      IF(.NOT.((T3.GT.0.000001).AND.(T1.GT.0.000001))) GO TO 360
        ITPF5=TIME1(1)*(QTYP1+TYP2TF*(QTYP2D*U(1.-COND(I))+QTYP2B*
          U(TEMP)) ) *1./T3
360
     CONTINUE
      TEMP=(T2DA*QTYP2D*(1.+(PIUP-1.)*TORD)+T2BA*QTYP2B*(1.+(PIUP-1.)*
       TORB))*1./(HPD2*SPC2)
      TERM1=0.
      IF(.NOT.((HPD1.GT.0.00001).AND.(SPC1.GT.0.00001))) GO TO 370
        TERM1=ITPF1*(AINT(T1/HPD1+.9)*AINT(QTYP1/SPC1+.9)*CPD1+QTYP1*
          (AINT(T1/HPD1+.9) \div PAL1+TRAV1D \div U(T1)))
370
     CONTINUE
      TERM2=ITPF2*AINT(TEMP+,9)*CPD2
      TERM3=ITPF3*(1.+(PIUP-1.)*TORD)*QTYP2D*(AINT(T2DA/HPD2+.9)*
        PAL2D+TRAV1D*U(T2DA))
      TERM4=ITPF4*(1.+(PIUP-1.)*TORB)*QTYP2B*(AINT(T2BA/HPD2+.9)*
        PAL2B+TRAVB#U(T2BA))
      TERM5=ITPF5#TEFM
      MTRCI(I)=TERM1+TERM2+TERM3+TERM4+TERM5
380 CONTINUE
    RETURN
    END
```

 \mathbf{C}

```
FUNCTION CHLCC(CC,CR,CN,I)
                                                 810625 085415469
C#
   ATU MOD SLR - 20 MAY 80
C* COMPUTES CHANGE IN LCC FOR REPAIR LEVEL SENSITIVITY
C
     COMMON /A/ A(150,4,3)
     INTEGER A
     COMMON /B/ B
     INTEGER B
     COMMON /BAA/ BAA
     COMMON / BCMH / BCMH (150)
     COMMON /BLR/ BLR
     COMMON /BMF/ BMF
     COMMON /BMH/ BMH(.50)
     COMMON /BRCT/ BRCT
     COMMON /BTYPE BTYPE (10)
     INTEGER BTYPE
     COMMON /CIMF/ CIMF(10)
     COMMON /COND/ COND(150)
     COMMON /CPPD/ CPPD(3)
     COMMON /CRCT/ CRCT
     COMMON /CSE/ CSE(120)
     COMMON /DAA/ DAA
     COMMON /DAD/ DAD
     COMMON /DLR/ DLR
     COMMON /DMF/ DMF
     COMMON /DMH/ DMH(150)
     COMMON /DRCT/ DRCT(3)
     COMMON /ERHAB | ERHAB (120, 10)
     COMMON /ERHAD/ ERHAD(120)
     COMMON / FAIL/ FAIL(150,10)
     COMMON FPR/ FPR(150)
     COMMON /HDWRIT/ HDWRIT(150,5)
     COMMON / IRMIN/ IRMIN(150,4)
     COMMON LIRMIN IRMI
     COMMON (ISCA, ISCA(150)
     REAL ISCA
     COMMON TISET/ ISET(120,10)
     REAL ISET
     COMMON , ISETD ( 1SETD(120)
     REAL ISETU
     COMMON /L/ L
     COMMON /LO, LO(10)
     COMMON /LRU/ LRU(150)
```

COMMON /LT/ LT

COMMON /MSE/ MSE(120)

REAL MSE

COMMON CHAIRMT MAIRMT

COMMON /MXL/ MXL

COMMON /MXLT/ MXLT

COMMON /MXNP/ MXNP

COMMON /MXNS/ MXNS

COMMON / NBC / NBC (10)

REAL NBC

COMMON NFB/ NFB(150,10)

REAL NFB

COMMON /NFD/ NFD(150)

RUAL NFD

COMMON /NHB/ NHB(10)

COMMON / NHI/ NHI(150)

COMMON /NITEM/ NITEM(150,5)

REAL NITEM

COMMON /NJA/ NJA(150,4)

COMMON -NP/ NP

COMMON (NRM) NRM(150)

COMMON - NRTS / NRTS (150)

REAL NRTS

COMMON - NRUC/ NRUC

REAL NRUC

COMMON JNS/ NS

COMMON /NSEB/ NSEB(120,10)

REAL NSUB

COMMON /NSED/ NSED(120)

REAL NSED

COMMON /OST/ OST(3)

COMMON /PA/ PA(150)

COMMON /PIUP/ PIUP

COMMON /QSA/ QSA(150,4,3)

COMMON /RM/ RM(150)

COMMON /RMI/ RMI: 150,10)

INTEGER RMI

COMMON /RSCA/ RSCA(150)

COMMON /RTS/ RTS(150)

COMMON /SA/ SA

COMMON /SAT/ SAT(10)

COMMON (SEINO) SEINO(120)

INTEGER SEINO

COMMON /TNB/ TNB(10)

COMMON / TOTT/ TOTT(5)

COMMON /UP/ UP(150)

COMMON /USE/ USE(120,10)

COMMON /USED/ USED(120)

```
COMMON /WT/ WT(150)
      COMMON /XFPR/ XFPR
      COMMON /XITEMQ/ XITEMQ(150)
      COMMON /XUC/ XUC
      DIMENSION CHSE (120, 10)
      DIMENSION CHSED(120)
      DIMENSION CNFB(10)
      DIMENSION CPP(10)
      DIMENSION CRH(10)
      REAL NHNRT
      KEAL NHRT
C
C
С
C . . . .
       CALCULATES CRH(NS), CKHD
      NHRT=0.
      NHNRT=0.
      IF(.NOT.(NHI(I).NE.0)) GO TO 210
        NHRT=RTS(NHI(1))
        NHNRT=NRTS(NHI(I))
  210 CONTINUE
      DO 240 \text{ NS}=1,\text{MXNS}
        CRH(NS)=0.
        IF(.NOT.(BTYPE(NS).NE.3)) GO TO 230
          TEMO1≈0.
          DO 220 B=1,8558
            JF(.NOT.(NHE(B).EQ.NS)) GO TO 220
            220
          CONTINUE
          CRH(NS) \approx FAIL(\{1,NS\}) + (FLOAT(LRU(1))) + NHRT) + CR*BMH(1) + BMF + CIME(NS)
            *TEMO1*.FLOAT(LRU(1))+NHRT)*((CR+CN+U(XFPR*FPR(1))*CC)*
            BOMH(I)+OR#BMH(I))#BMF
  230 CONTINUE
  240 CONTINUE
      TEM02=0.
      DO 250 NS=1, MXNS
        TEM02=TEM02+FAIL(I,NS) #TNB(NS)
  250 CONTINUE
      CRHD=TEMO2*((FLOAT(LRU(I))+NHRT)*CN-NHNRT*CC)*DMH(I)*DMF
C
C.... CALCULATES CHSE(L,NS) AND CHSED(L)
      DO 276 IXXX1=1,MXL
        L=SEINO(IXXXI)
        CHSED(L)=0.
        DO 260 NS=1,MXNS
          CHSE(L, NS)=0.
  260
       CONTINUE
```

```
270 CONTINUE
      DC +20 NS=1,MXNS
         XXXXI = XKM(I):
         I.F \leftarrow N. \forall T. : NXXX1.GT.(0) ) + GO - TO - 410
          D SOCIEMTAL, MXIRMT
             13 N. T. (18MT.LEL.NXXXI)) GO TO 400
             NEEDS A LIBRATIO
                 N(C) = NXXX2.GT.(0.1) \cdot GO/TO/380
                   % [] =1,MNLT
N [] IT LE NXXX2)) GO TO 370
                       - 4MT - 17
                     \sim 1 [RMIN(1,1RMT).EQ.RMI(1,NS))) GO TO 280
                       % .SA.1, IKMT, LT \-AINT(QSA(I, IRMT, LT)/100.)*100.
                           TRH NS (GT.,000001)) GO TO 290
                     Has I.NS = SE(L,NS) # (CRH(NS)/BAA) #AMAX1(ISET(L,NS),
                      L,SA
                    NIINII
                    N T (RH.NS).LT.-.000001)) GO TO 310
                    If c = N The (ERHAB(L,NS),GT.,000001,OR,ERHAB(L,NS),LT.
                      - LR 2001 D GO TO 300
                      THSE(L,NS)=CRH(NS)/ERHAB(L,NS)*NSEB(L,NS)
                   CONTINUE
  30
  310
                 CONTINUE
                  TQSA=0.
                 IF: NOT. (IRMIN(I,IRMT).EQ.1)) GO TO 320
                    TQSA=QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,LT)/100.)*100.
                 CONTINUE
  320
                 IF(.NOT.(CRHD.GT..000001)) GO TO 330
                    CHSEL(L)=USED(L)*CRHD/DAA*AMAX1(ISETD(L),TQSA)
  330
                 CONTINUE
                 IF(.NOT.(CRHD.LT.-.000001)) GO TO 350
                    IF(.NOT.(ERHAD(L).GT..000001.OR.ERHAD(L).LT.
                      -.000001)) GO TO 340
                      CHSED(L)=CRHD/ERHAD(L)*NSED(L)
                    CONTINUE
  340
                 CONTINUE
  350
               CONTINUE
  360
               CONTINUE
  370
             CONTINUE
  380
  390
          CONTINUE
  400
          CONTINUE
  410
        CONTINUE
  420 CONTINUE
\mathbf{C}
C.... CALCULATES CNFB(NS) AND CNFD
```

```
DO 440 NS=1,MXNS
        TEM03=0.
        DO 430 B=1,MXNS
          1F(.NOT.(NHB(B).EQ.NS)) GO TO 430
          TEMO3=TEMO3+(FAIL(I,B)*NBC(B))
  430
        CONTINUE
        CNFB(NS)=(1.-SAT(NS))*FAIL(I,NS)*(FLOAT(LRU(I))+NHRT)*(CR*BRCT+
          (CN+CC)*OST(LO(NS)))+CIMF(NS)*TEMO3*(FLOAT(LRU(I))+NHRT)*(CR*
          CRCT+(CN+CC)*(OST(LO(NS))+U(XFPR*FPR(I))*CRCT))
  440 CONTINUE
      TEM04=0.
      DO 450 NS=1,MXNS
        TEMO4=TEMO4+FAIL(I,NS)*TNB(NS)*((FLOAT(LRU(I))+NHRT)*CN*
          DRCT(LO(NS))-NHNRT*CC*DAD)
  450 CONTINUE
      CNFD=TEM04
С
\mathsf{C}\dots
       CALCULATES CPP(NS)
      DO 490 NS=1, MXNS
        RTSNFB=RTS(I)*NFB(I,NS)
        IF(.NOT.(RTSNFB.LT.,000001)) GO TO 460
          CPP(NS)=U(CR*(CNFB(NS)+NFB(I,NS)))
  460
        CONTINUE
        IF(.NOT.(RTSNFB.GT..000001)) GO TO 480
          CPP(NS)=0.
          IF(.NOT.(CR.LT..000001)) GO TO 470
            CPP(NS) = CR/RTS(I)
  470
          CONTINUE
  480
        CONTINUE
  490 CONTINUE
      TEM05=0.
      DO 500 NS=1,MXNS
        TEM05=TEM05+TNB(NS)*(F(CNFB(NS)+NFB(I,NS))-F(NFB(I,NS)))
  500 CONTINUE
      XITEMQ(I)=TEMO5+(F(CNFD+NFD(I))-F(NFD(I)))
C
C.... CALCULATES CHLCC
      CI)=0.
      IF(.NOT.(LRU(I).EQ.0)) GO TO 510
        CD=COND(NHI(I))
  510 CONTINUE
      TEM06=0.
      DO 520 NS=1, MXNS
        TEMO6=TEMO6+FAIL(I,NS)*TNB(NS)
  520 CONTINUE
      TEMP=12. *TEMO6*(1.-COND(NHI(I)))
      TEM(0.7 = 0).
```

```
DO 530 NS=1,MXNS
      TEM07=TEM07+TNB(NS)*(F(CNFB(NS)+NFB(I,NS)))
530 CONTINUE
   CHLCCA=(TEM07+(F(CNFD+NFD(I))))*UP(I)*XLEARN(I)*XUC-ISCA(I)+TEMP*
   + UP(I)*XUC*((NRUC*XLEARN(I)+(PIUP-NRUC))*(COND(I)+CC)+PIUP*(1.-
     (COND(I)+CC))*RM(I))-RSCA(I)
   TEM08=0.
   DO 540 NS=1, MXNS
      TEM08=TEM08+FAIL(I,NS)*TNB(NS)*((FLOAT(LRU(I))+NHRT)*(CR*BMH(I)*
        BMF*BLR+CN*(DMH(I)*DMF*DLR+2.*CPPD(LO(NS))*WT(I))+CC*
        CPPD(LO(NS))*WT(1))-NHNRT*CC*DMH(I)*DMF*DLR)
540 CONTINUE
   CHLCCB=12.*PIUP*TEM08
   CHLCCD=0.
   NXXX1=NRM(I)
    IF(.NOT.(NXXX1.GT.0)) GO TO 620
      DO 610 IRMT=1, MXIRMT
        NXXX2=NJA(I,IRMT)
        IF(.NOT.(NXXX2.GT.0)) GO TO 600
          DO 580 LT=1,MXLT
            IF(.NOT.(LT.LE.NXXX2)) GO TO 590
            L=A(I,IRMT,LT)
            CHLCCC=0.
            DO 560 NS=1, MXNS
              IF(.NOT.(IRMT.EQ.RMI(I,NS))) GO TO 550
                CHLCCC=CHLCCC+U(QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,LT)/
                  100.)*100.)*TNB(NS)*CHSE(L,NS)
550
              CONTINUE
            CONTINUE
560
            CHLCCF=0.
            IF(.NOT.(IRMT.EQ.1)) GO TO 570
              CHLCCF=CHLCCF+CHSED(L)*U(QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,
                LT)/100.)*100.)
570
            CHLCCD=CHLCCD+((CHLCCC+CHLCCF)*CSE(L)*(1.+PIUP*MSE(L)))
580
          CONTINUE
590
          CONTINUE
600
        CONTINUE
      CONTINUE
510
620 CONTINUE
    TEM09=0.
    DO 630 NS=1,MXNS
      TEMO9=TEMO9+(1.-SAT(NS))*TNB(NS)*PIUP*SA*(AMIN1(F(CNFB(NS)+
        NFB(I,NS)),1.)-AMIN1(F(NFB(I,NS)),1.)+CPP(NS)*PA(I))
630 CONTINUE
   TEM10=0.
   DO 640 NP=1,MXNP
```

```
TEM10=TEM10+TOTT(NP)*(NITEM(1,NP)*UP(1)*XLEARN(1)*XUC-HDWRIT(1,
+ NP))
640 CONTINUE
CHLCCE=TEM09+TEM10
CHLCC=CHLCCA+CHLCCB+CHLCCD+CHLCCE

C
RETURN
END
```

```
810625 085444021
COMPUTES PROGRAM OPERATIONAL
C*
                ATU MOD SLR-4 JUNE 1980
C*
                LIFETIME - PIUP FACTOR
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                              COMMON /COND/ COND(150)
                              COMMON /CPIUP/ CPIUP
                              COMMON /FAIL/ FAIL(150,10)
                              COMMON /FINC/ FINC
                              COMMON /I/ I
                              COMMON /IIMCR/ IIMCR
                              REAL IIMCR
                              COMMON /INO/ INO(150)
                              COMMON /LDERV/ LDERV
                              COMMON /MXI/ MXI
                              COMMON /MXNS/ MXNS
                              COMMON /NHI/ NHI(150)
                              COMMON /NS/ NS
                              COMMON /OC/ OC
                              COMMON /OFMC/ OFMC
                              COMMON /ONMC/ ONMC
                              COMMON /PIUP/ PIUP
                              COMMON /RM/ RM(150)
                              COMMON /RMTRC/ RMTRC
                              COMMON /SECR/ SECR
                              COMMON /STDCR/ STDCR
                              COMMON /TDPIUP/ TDPIUP
                              COMMON /TNB/ TNB(10)
                              COMMON /UP/ UP(150)
                              COMMON /XUC/ XUC
С
                              CPIUP=AINT(FINC*PIUP+.5)
                              TEM02=0.
                              DO 220 IXXX1=1,MXI
                                          I=INO(IXXX1)
                                         TEM01=0.
                                         DO 210 NS=1, MXNS
                                                   TEMO1=TEMO1+FAIL(I,NS)*TNB(NS)
           210
                                        CONTINUE
                                         TEMO2=TEMO2+TEMO1*(1.-COND(NHI(I)))*UP(I)*XUC*(COND(I)+(1.-COND(I))*UP(I)*XUC*(COND(I)+(1.-COND(I))*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*UP(I)*
                                                   COND(I))*RM(I)
           220 CONTINUE
                              T1=PIUP*12.*TEM02
```

SUBROUTINE DPIUP

TDPIUP=CPIUP/PIUP*(OC+ONMC+OFMC+SECR+IIMCR+T1+PIUP/(PIUP-1.)*
+ (STDCR+RMTRC))/1000000.

С

RETURN END

SUBROUTINE DDMF

```
810625 085446134
Considerate in the second of the first of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
C* BASELINE CHANGE
C* COMPUTES MAINTENANCE REPAIR TIME
C* FACTORS - BMF AND DMF
Cut appropriate to the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of the trade of
С
                                COMMON /BAA/ BAA
                                COMMON /BLR/ BLR
                                COMMON /CSE/ CSE(120)
                                COMMON /DAA/ DAA
                                COMMON /DLR/ DLR
                                COMMON /ERHAB/ ERHAB(120,10)
                                COMMON /ERHAD/ ERHAD(120)
                                COMMON /ERHBI/ ERHBI(150,10)
                                COMMON /ERHD/ ERHD(150)
                                COMMON /FINC/ FINC
                                COMMON /I/ I
                                COMMON /INO/ INO(150)
                                COMMON /ISET/ ISET(120,10)
                                REAL ISET
                                COMMON / ISETD/ ISETD(120)
                                REAL ISETD
                                COMMON /L/ L
                                COMMON /LDERV/ LDERV
                                COMMON /MSE/ MSE(120)
                                REAL MSE
                                COMMON /MXI/ MXI
                                COMMON /MXL/ MXL
                                COMMON /MXNS/ MXNS
                                COMMON /NS/ NS
                                COMMON /ONMC/ ONMC
                                COMMON /PIUP/ PIUP
                                COMMON /SEINO/ SEINO(120)
                                  INTEGER SEINO
                                COMMON /TDMF/ TDMF
                                COMMON /TNB/ TNB(10)
                                COMMON /USE/ USE(120,10)
                                COMMON /USED/ USED(120)
С
С
                                TDMFA=FINC*ONMC
                                DO 220 IXXX1=1,MXI
                                           I=INO(IXXX1)
                                           TEM01=0.
```

DO 210 NS=1, MXNS

```
TEMO1=TEMO1+ERHBI(I,NS)*TNB(NS)
 210
       CONTINUE
       TDMFA=TDMFA+12.*PIUP*FINC*(TEMO1*BLR+ERHD(I)*DLR)
 220 CONTINUE
      TEM03=0.
      DO 240 IXXX1=1,MXL
        L=SEINO(IXXX1)
        TEM02=0.
        DO 230 NS=1, MXNS
          TEMO2=TEMO2+(USE(L,NS)*ERHAB(L,NS)*ISET(L,NS)*TNB(NS)/BAA)
 230
       CONTINUE
        TEM03=TEM03+(TEM02+USED(L)*ERHAD(L)*ISETD(L)/DAA)*CSE(L)*(1.+
         PIUP*MSE(L))
  240 CONTINUE
      TDMF=TDMFA+FINC*TEM03
      TDMF=TDMF/1000000.
С
      RETURN
      END
```

SUBROUTINE DRM

```
С
                                                                                                                                                                                                                                                                                           810625 085449906
Control of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the fir
                ATU MOD SLR - 5 JUN 80
C* COMPUTES ITEM SPECIFIC REPAIR MATERIALS COST
                                                                                                                                                                                                                                                                                                                                                                        :::
                                                                                                                                                                                                                                                                                                                                                                        4:
C* FACTOR - RM(I)
Cultural and the first and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr
С
                               COMMON /PRNTXX/ PRNTXX
                               INTEGER PRNTXX
                               COMMON /COND/ COND(150)
                               COMMON /FAIL/ FAIL(150,10)
                               COMMON /FINC/ FINC
                               COMMON /I/ I
                               COMMON / IDRM/ IDRM(150)
                               COMMON / INO/ INO(150)
                               COMMON /LDERV/ LDERV
                               COMMON / LDRM/ LDRM
                              COMMON /MXI/ MXI
                              COMMON /MXNS/ MXNS
                               COMMON /NHI/ NHI(150)
                               COMMON /NS/ NS
                              COMMON /PIUP/ PIUP
                              COMMON /RM/ RM(150)
                              COMMON /TDRM/ TDRM(150)
                              COMMON /TNB/ TNB(10)
                              COMMON /UP/ UP(150)
                              COMMON /XUC/ XUC
\mathsf{C}
                              DO 220 IXXX1=1,MXI
                                         I = INO(IXXXI)
                                         TEM01=0.
                                         DO 210 NS=1, MXNS
                                                   TEMO1=TEMO1+FAIL(I,NS)*TNB(NS)
           210
                                         CONTINUE
                                         TDRM(I)=12.*TEM01*(1.-COND(NHI(I)))*PIUP*(1.-COND(I))*FINC*RM(I)
                                                  *UP(I)*XUC/1000000.
           220 CONTINUE
C
                               DO 999 IXXX=1,MXI
                                         IDRM = (IXXX) = INO
                                                                                                                                  (IXXX)
           999 CONTINCE
                               LD=LDRM
                               IF (PRNTXX.NE.O) LD=MAXO(LD,LDERV)
                               CALL TDSORT(TDRM , IDRM , LD, MXI
C
```

RETURN END

SUBROUTINE DXRM С 810625 085452124 Constitution of the first of th C* COMPUTES GLOBAL REPAIR MATERIALS COST C* FACTOR - XRM С COMMON /I/ I COMMON /INO/ INO(150) COMMON /LDERV/ LDERV COMMON /MXI/ MXI COMMON /TDRM/ TDRM(150) COMMON /TDXRM/ TDXRM С С TEMO1=0. DO 210 IXXX1=1,MXI I = INO(IXXX1)TEMO1=TEMO1+TDRM(I) 210 CONTINUE TDXRM=TEM01 C RETURN END

SUBROUTINE DXUC

```
С
                                                                                                                                                                                                                                                                                                                          810625 085453725
Constitution for the first that the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
C* COMPUTES GLOBAL UNIT COST FACTOR - XUC
C* ATU MOD SLR - 23 JUNE 80
С
                                 COMMON /FINC/ FINC
                                 COMMON /ISC/ ISC
                                 REAL ISC
                                 COMMON /LDERV/ LDERV
                                 COMMON /RSC/ RSC
                                 COMMON /TDXUC/ TDXUC
                                 COMMON /TERMH/ TERMH
С
С
                                 TDXUC=(FINC*(TERMH+ISC+RSC))/1000000.
С
                                  RETURN
                                 END
```

SUBROUTINE DUP

```
C
                                                            810625 085454760
C# ATU MOD SLR - 5 JUN 80
C* COMPUTES ITEM SPECIFIC UNIT COST
C* FACTOR - UP(I)
С
      COMMON /PRNTXX/ PRNTXX
      INTEGER PRNTXX
      COMMON /"INC/ FINC
      COMMON /I/ I
      COMMON /IDUP/ IDUP(150)
      COMMON /INO/ INO(150)
      COMMON /ISCA/ ISCA(150)
      REAL ISCA
      COMMON /LC/ LC(150)
      REAL LC
      COMMON /LDERV/ LDERV
      COMMON / LDUP/ LDUP
      COMMON /MXI/ MXI
      COMMON /MXNP/ MXNP
      COMMON (NITEM/ NITEM(150,5)
      REAL NITEM
      COMMON /NP/ NP
      COMMON /RSCA KSCA(150)
      COMMON /TDUP, TDUP(150)
      COMMON TOTT TOTT(5)
      COMMON /UP UP(150)
      COMMON XUC, XUC
\mathbf{C}
\mathbf{C}
      DO 220 \text{ IXXX} 1=1, \text{MXI}
        A = INO(IXXXI)
         TEMO1=0.
        DO 210 NP=1,MXNP
           TEMO1=TEMO1+TOTT(NP)*NITEM(I,NP)
  210
        CONTINUE
        \texttt{TDUP}(\texttt{I}) = \texttt{FINC} \div (\texttt{TEMO1} \div \texttt{UP} - \texttt{I}) \div \texttt{LC}(\texttt{I}) \div \texttt{XUC} + (\texttt{ISCA}(\texttt{I}) + \texttt{RSCA}(\texttt{I}))) \ , \ 10000000 \ .
  220 CONTINUE
      12221 \cdot 999 \cdot 12221 \cdot 921
       1DUP = (1XXX) = INO = (1XXX)
  999 CONTINUE
      LD=LDUP
      IF (PRNTXX.NE.O) LD=MAXO(LD, LDERV )
      CALL TDSORT(TDUP , IDUP , LD, MXI
```

C RETURN END

SUBROUTINE DFR

С	810625 085456462
C***	
C#	ATU MOD SLR - 5 JUN 80 *
C*	COMPUTES ITEM SPECIFIC FAILURE RATE *
C*	
'כייל"	
С	
	COMMON / PRNTXX/ PRNTXX
	INTEGER PRNTXX
	COMMON /A/ A(150,4,3)
	INTEGER A
	COMMON /BAA/ BAA
	COMMON /COND/ COND(150)
	COMMON /CSE/ CSE(120)
	COMMON /DAA/ DAA
	COMMON /ERHBI/ ERHBI(150,10)
	COMMON /ERHD/ ERHD(150)
	COMMON /FAIL/ FAIL(150,10)
	COMMON /FINC/ FINC
	COMMON /I/ I
	COMMON 'IDFR/ IDFR(150)
	COMMON (1NO/ 1NO(150)
	COMMON /IRMIN/ IRMIN(150,4)
	COMMON / IRMT/ IRMT
	COMMON /ISCA/ ISCA(150)
	REAL ISCA
	COMMON /ISET/ ISET(120,10)
	REAL ISET
	COMMON ISETD/ ISETD(120)
	REAL ISETU
	COMMON /L/ L
	COMMON /LDERV/ LDERV
	COMMON /LDFR/ LDFR
	COMMON /LT/ LT
	COMMON /MSE/ MSE(120)
	REAL MSE
	COMMON /MXI/ MXI
	COMMON /MXIRMT/ MXIRMT
	COMMON /MXLT/ MXLT
	COMMON /MXNS / MXNS
	COMMON NFB (NFB (150, 10)
	REAL NFB
	COMMON (NFD) NFD(150)
	REAL NFD
	COMMON /NHI · NHI (150)
	COMMON (NJA) NJA(150,4)

```
3 MM N NRM ( NRM/ 150)
      COMMUNICATION NRUCE NRUCE
      REAL NRUC
      \mathsf{COMM}(N-NS) \cap NS
      COMMON GEMCA/ GEMCA(150)
      COMMON .ONMCA/ ONMCA(150)
      COMMON PIUTA PIUP
      COMMON QSA (SA:150,4,3)
      COMMON RM RM(150)
      COMMON RMI RMI(150,10)
      INTEGER RMI
      JUMON RSCAL RSCA(150)
      COMMON SAI SA
      COMMON /TDFR/ TDFR(150)
      COMMON TISQ/ TISQ(150)
      COMMON TISQN: TISQN(150)
      COMMON (TNB: TNB(10)
      COMMON TOSA TOSA
      COMMON UP UP(150)
      COMMON (USE USE(120,10)
      COMMON USED/ USED(120)
      COMMON XITEMQ XITEMQ(150)
      COMMON XCC XCC
      COMMON , YRSQ / YRSQ(150)
C
C
      DO 330 IXXX1≈1,MXI
        I = I \times (I \times I \times I)
        TEMO1=0.
        DO 210 NS=1, MXNS
          TEMO1=TEMC1+TNB(NS)#F((1.+FINC)#NFB(1,NS))
  216
        CONTINUE
        TISQN(I) = TEM((1+FINC) * NFD(I))
        XITEMQ(I) = (TISQN(I) - TISQ(I)) + FINC*NRUC*YRSQ(I)
        TEM02=0.
        DO 220 NS=1,MXNS
          TEM02 = TEM((2 + FAIL(1, NS)) * TNB(NS)
  220
       CONTINUE
        TEMP=12. *TEM02*(1. *COND(NHI(I)))
        TDFRA=(1.+FINC)*TEMV*(+NRUC*XLEARN(1)+(PIUP-NRUC))*COND(1)+PIUP*
          (1, -COND(1)) \%RMC (1) \%UP(1) \%XUC-RSCA(1)+TISQN(1)\%UP(1)\%XLEARN(1)
          *XUC - ISCA(I)+FINC*(ONMCA(I)+OFMCA(I))
        TDFRB=0.
        XXXX1 = XRM(T)
        IF(.NOT.(NXXX1,GT.0)) GO TO 310
          Dis 290 TRMT=1,MXTRMT
             TELLNOT, CIRMINELNXXXI) GO TO 300
```

```
NXXX2=NJA(I,IRMT)
            IF(.NOT.(NXXA2.GT.0)) GO TO 280
              DO 260 LT=1,MXLT
                 IF(.NOT.(LT.LE.NXXX2)) GO TO 270
                 L=A(I,IRMT,LT)
                TDFRB1=0.
                DO 240 NS=1,MXNS
                   IF(.NOT.(IRMIN(I,IRMT).EQ.RMI(I,NS))) GO TO 230
                     TQSA=QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,LT)/100.)*100.
                     TDFRB1=USE(L,NS)*ERHBI(I,NS)*U(TQSA)*ISET(L,NS)*
                       TNB(NS)/BAA+TDFRB1
  230
                  CONTINUE
  240
                CONTINUE
                TDFRB2=0.
                 IF(.NOT.(IRMIN(1,IRMT).EQ.1)) GO TO 250
                   TQSA=QSA(1, IRMT, LT)-AINT(QSA(1, IRMT, LT)/100.)*100.
                   TDFRB2=USED(L)*ERHD(I)*U(TQSA)*ISETD(L)/DAA
  250
                CONTINUE
                TDFRB=TDFRB+FINC*(TDFRB1+TDFRB2)*CSE(!)*(1.+PIUP*MSE(L))
  260
              CONTINUE
  270
              CONTINUE
  280
            CONTINUE
  290
          CONTINUE
  300
          CONTINUE
  310
        CONTINUE
        TEMO3=0.
        DO 320 NS=1,MXNS
          TEM03=TEM03+(AMIN1(F((1.+FINC)*NFB(I,NS)),I.)-AMINI(F(NFB(I,
            NS)),1.) \#TNB(NS)
        CONTINUE
        TDFR(I)=(TDFRA+TDFRB+TEM03*PIUP*SA)/1000000.
  330 CINTINUE
C
      DO 999 IXXX=1,MXI
        IDFR = (IXXX) = INO
                           (IXXX)
  999 CONTINUE
      II)=II)FR
      IF (PKNTXX.NE.0) LD≈MAXO(LD, LDERV )
      CALL TDSORT(TDFR , IDFR , LD, MXI
\mathbf{C}
      RETURN
      END
```

SUBROUTINE DXFR

```
\mathcal{C}
                                        810625 085504857
C# COMPUTES GLOBAL FAILURE RATE FACTOR - XFR
\mathbb{C}
    COMMON /I/ I
    COMMON / INO/ INO(150)
    COMMON /LDERV/ LDERV
    COMMON /MXI/ MXI
    COMMON /TDFR/ TDFR(150)
    COMMON / TOXFR/ TOXFR
C
C
    TEMO1=0.
    DO 210 IXXX1=1,MXI
     1=1NO(1XXX1)
     TEMO1=TEMO1+TDFR(I)
 210 CONTINUE
    TDXFR=TEMO1
C
    RETURN
    END
```

SUBROUTINE DFPR

COMMON /MXLT/ MXLT

```
С
                                                                                                                                                                        810625 085507289
C* COMPUTES ITEM FALSE PULL RATE - FPR(I)
C_{structure in equations in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties in the exercise properties properties in the exercise properties in the exercise properties properties in the exercise properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties properties
С
                  COMMON /PRNTXX/ PRNTXX
                  INTEGER PRNTXX
                  COMMON /A/ A(150,4,3)
                  INTEGER A
                 COMMON /B/ B
                  INTEGER B
                 COMMON /BAA/ BAA
                  COMMON /BCMH/ BCMH(150)
                  COMMON /BLR/ BLR
                  COMMON /BMF/ BMF
                  COMMON /BRCT/ BRCT
                  COMMON /BTYPE/ BTYPE(10)
                  INTEGER BTYPE
                  COMMON /CIMF/ CIMF(10)
                  COMMON /COND/ COND(150)
                  COMMON /CPPC/ CPPC
                 COMMON / CRCT/ CRCT
                 COMMON /CSE/ CSE(120)
                 COMMON /FAIL/ FAIL(150,10)
                 COMMON /FINC/ FINC
                  COMMON /FPR/ FPR(150)
                  COMMON /HDWRIT/ HDWRIT(150,5)
                  COMMON /1/ I
                  COMMON / IDFPR/ IDFPR(150)
                  COMMON /INO/ INO(150)
                  COMMON / IRMIN/ IRMIN(150,4)
                  COMMON / IRMT/ IRMT
                  COMMON /ISCA/ ISCA(150)
                  REAL ISCA
                  COMMON / ISET/ ISET(120,10)
                  REAL ISET
                  COMMON /L/ L
                  COMMON /LDERV/ LDERV
                  COMMON /LDFPR/ LDFPR
                  COMMON /LRU/ LRU(150)
                  COMMON /LT/ LT
                  COMMON /MSE/ MSE(120)
                  REAL MSE
                  COMMON /MXI/ MXI
                  COMMON /MXIRMT/ MXIRMT
```

```
COMMON /MXNP/ MXNP
    COMMON /MXNS/ MXNS
    COMMON /NBC/ NBC(10)
    REAL NBC
    COMMON /NFB/ NFB(150, 10)
    REAL NFB
    COMMON /NHB/ NHB(10)
    COMMON /NHI/ NHI(150)
     COMMON /NITEM/ NITEM(150,5)
     REAL NITEM
     COMMON /NJA/ NJA(150,4)
     COMMON /NP/ NP
     COMMON /NRM/ NRM(150)
     COMMON /NRUC/ NRUC
     REAL NRUC
     COMMON /NS/ NS
     COMMON /OSTC/ OSTC
     COMMON /PIUP/ PIUP
     COMMON /QSA/ QSA(150,4,3)
     COMMON /RM/ RM(150)
     COMMON /RMH/ RMH(150)
     COMMON /RMI/ RMI(150,10)
     INTEGER RMI
     COMMON /RSCA/ RSCA(150)
     COMMON /SA/ SA
     COMMON /SAT/ SAT(10)
     COMMON /TDFPR/ TDFPR(150)
     COMMON /TISQ/ TISQ(150)
     COMMON /TNB/ TNB(10)
     COMMON /TOTT/ TOTT(5)
     COMMON /TQSA/ TQSA
      COMMON /UP/ UP(150)
      COMMON /USE/ USE(120,10)
      COMMON /WT/ WT(150)
      COMMON /XFPR/ XFPR
      COMMON /XITEMQ/ XITEMQ(150)
      COMMON /XUC/ XUC
      DIMENSION CHNFB(150,10)
С
С
      DO 270 NS=1, MXNS
        IF(.NOT.(BTYPE(NS), EQ.3)) GO TO 220
          DO 210 IXXX2=1,MXI
            I=INO(IXXX2)
            CHNFB(1,NS)=FAIL(1,NS)*FLOAT(LRU(1))*FINC*FPR(1)*XFPR*OSTC
          CONTINUE
  210
        CONTINUE
  220
```

```
IF(.NOT.(BTYPE(NS).NE.3)) GO TO 260
        DO 250 IXXX2=1,MXI
          I=INO(IXXX2)
          CHNFB(I,NS)=FAIL(I,NS)*FLOAT(LRU(I))*FINC*FPR(I)*XFPR*BRCT
          IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 240
            TEM01=0.
            DO 230 B=1, MXNS
              IF(.NOT.(NHB(B).EQ.NS)) GO TO 230
              TEMO1=TEMO1+FAIL(I,B)*NBC(B)
230
            CONTINUE
            CHNFB(I,NS)=CHNFB(I,NS)+CIMF(NS)*TEMO1*FLOAT(LRU(I))*FINC*
              FPR(I)*XFPR*CRCT
240
          CONTINUE
250
        CONTINUE
260
      CONTINUE
270 CONTINUE
    DO 440 IXXX1=1,MXI
      I=INO(IXXX1)
      TDFPR(I)=0.
      IF(.NOT.(LRU(I).NE.0)) GO TO 430
        TEM02=0.
        DO 280 NS=1,MXNS
          TEMO2=TEMO2+TNB(NS)*(F(NFB(I,NS)+CHNFB(I,NS))-F(NFB(I,NS)))
280
        CONTINUE
        XITEMQ(I)=TEM02
        TEM03=0.
        DO 290 NS=1,MXNS
          TEM03=TEM03+TNB(NS)*FAIL(I,NS)
290
        CONTINUE
        TDFPRA=(TISQ(I)+XITEMQ(I))*UP(I)*XLEARN(I)*XUC-ISCA(I)+12.*
          PIUP*TEMO3*FINC*FPR(I)*XFPR*RMH(I)*BMF*BLR
        TEM04=0.
        DO 300 NS=1,MXNS
          TEMO4=TEMO4+TNB(NS)*FAIL(I,NS)*(BCMH(I)*BMF*BLR+SAT(NS)*2.*
            CPPC*WT(1))
300
        CONTINUE
        TDFPRB=12.*PIUP*TEM04*FINC*XFPR*FPR(I)
        TDFPRC=0.
        DO 390 NS=1,MXNS
          TEMP=0.
          NXXX1=NRM(1)
          IF(.NOT.(NXXX1.GT.0)) GO TO 370
            DO 350 IRMT=1, MXIRMT
              IF(.NOT.(IRMT.LE.NXXX1)) GO TO 360
              IF(.NOT.(IRMIN(I,IRMT).EQ.RMI(I,NS))) GO TO 340
                NXXX2=NJA(I,IRMT)
                IF(.NOT.(NXXX2.GT.0)) GO TO 330
```

```
DO 310 LT=1,MXLT
                       1F(.NOT.(LT.LE.NXXX2)) GO TO 320
                       TQSA=QSA(I,IRMT,LT)-AINT(QSA(I,IRMT,LT)/100.)\pm100.
                       L=A(I,IRMT,LT)
                       TEMP=TEMP+U(TQSA)*USE(L,NS)*ISET(L,NS)*CSE(L)*(1.+
                         PIUP*MSE(L))
  310
                     CONTINUE
  320
                     CONTINUE
  330
                  CONTINUE
  340
                CONTINUE
  350
              CONTINUE
              CONTINUE
  360
  370
            CONTINUE
            TEM05=0.
            DO 380 B=1,MXNS
              IF(.NOT.(NHB(B).EQ.NS)) GO TO 380
              TEMO5=TEMO5+FAIL(1,B)*NBC(B)
            CONTINUE
  380
            TDFPRC=TDFPRC+(1.-SAT(NS))*(FAIL(I,NS)+CIMF(NS)*TEM05+*TEMP
  390
          CONTINUE
          TDFPRC=TDFPRC*FINC*FPR(I)*XFPR*BCMH(I)*BMF/BAA
          TEM06=0.
          DO 400 NS=1, MXNS
            TEMO6=TEMO6+FAIL(I,NS)*TNB(NS)
  400
          CONTINUE
          TEMP=12. *TEMO6*(1.-COND(NHI(I)))
          TEM07=0.
          DO 410 NS≈1, MXNS
            TEMO7=TEMO7+TNB(NS)*(AMIN, (F(CHNFB(I,NS)+NFB(I,NS)),1.)-
              AMINI(F(NFB(I,NS)),1.))
  410
          CONTINUE
          TEM08=0.
          DO 420 NP=1,MXNP
            TEMO8=TEMO8+TOTT(NP)*(NITEM(I,NP)*UP(I)*XLEARN(I)*XUC-
              HDWRIT(I, NP))
          CONTINUE
  420
          TDFPRD=TEM07*PIUP*SA+TEM08+TEMP*((NRUC*XLEARN(I)+(PIUP-NRUC)
             )\pmCOND(I)\pmPIUP\pm(I, -COND(I))\pmRM(I))\pmUP(I)\pmXUC-RSCA(I)
          TDFPR(I)=(TDFPRA+TDFPRB+TDFPRC+TDFPRD)/1000000.
  430
        CONTINUE
  440 CONTINUE
\mathbf{C}
      DO 999 IXXX=1,MXI
        IDFPR (IXXX)≈INO
                            (1XXX)
  999 CONTINUE
      LD=LDFPR
      IF (PRNTXX.NE.O) LD=MAXO(LD,LDERV )
```

CALL TDSORT(TDFPR ,IDFPR ,LD,MXI)
C
RETURN
END

SUBROUTINE DXFPR

```
С
                                      810625 085523469
C* COMPUTES GLOBAL FALSE PULL RATE -
C* XFPR FACTOR
С
    COMMON /I/ I
    COMMON /INO/ INO(150)
    COMMON /LDERV/ LDERV
    COMMON /MXI/ MXI
    COMMON /TDFPR/ TDFPR(150)
    COMMON /TDXFPR/ TDXFPR
С
C
    TEM01=0.
    DO 210 1XXX1=1,MX1
     I = INO(IXXXI)
     TEMO1=TEMO1+TDFPR(I)
 210 CONTINUE
    TDXFPR=TEM01
C
    RETURN
    END
```

SUBROUTINE DRTS

```
С
                                                                                                                                                                               810625 085524541
Constitution in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
C* COMPUTES ITEM BASE REPAIR FRACTION
          -RTS(I) FACTOR - DRTS
С
                  COMMON / PRNTXX/ PRNTXX
                  INTEGER PRNTXX
                  COMMON /COND/ COND(150)
                  COMMON /FINC/ FINC
                  COMMON /I/ I
                  COMMON /IDRTS/ IDRTS(150)
                  COMMON / INO/ INO(150)
                  COMMON /LDERV/ LDERV
                  COMMON /LDRTS/ LDRTS
                  COMMON /MXI/ MXI
                  COMMON /NRTS/ NRTS(150)
                  REAL NRTS
                  COMMON /TDRTS/ TDRTS(150)
                  DO 250 IXXX1=1,MXI
                         I=INO(IXXX1)
                        TDRTS(I)=0.
                         IF(.NOT.(COND(I).EQ.1.)) GO TO 210
                               CR=AMIN1(FINC,1.)
                               CN=0.
                               CC=-1.*CR
      210
                        CONTINUE
                         IF(.NOT.(COND(I).LT.1.)) GO TO 220
                               CR=AMIN1(FINC,NRTS(I))
                               CN=-1.*CR
                               CC=0.
      220
                         CONTINUE
                         IF(.NOT.(CR.GT.O.)) GO TO 230
                               TDRTS(I) = (CHLCC(CC, CR, CN, I)) / 1000000.
      230
                         CONTINUE
                         IF(.NOT.(TDRTS(I).GT.~0.000001)) GO TO 240
                               TDRTS(I)=0.
      240
                        CONTINUE
      250 CONTINUE
C
                   DO 999 IXXX=1,MXI
                        IDRTS (IXXX)=INO
                                                                                    (IXXX)
      999 CONTINUE
                  LD=LDRTS
```

```
IF (PRNTXX.NE.0) LD=MAXO(LD,LDERV )
CALL TDSORT(TDRTS ,1DRTS ,LD,MXI )
C
RETURN
END
```

SUBROUTINE DNRTS

```
C
                                                                                                                                                                         810625 085527311
C* COMPUTES ITEM DEPOT REPAIR FRACTION -
C* NRTS(I) FACTOR - DNRTS
Culturale a local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local local 
С
                  COMMON /PRNTXX/ PRNTXX
                  INTEGER PRNTXX
                  COMMON /COND/ COND(150)
                  COMMON /FINC/ FINC
                  COMMON /I/ I
                  COMMON /IDNRTS/ IDNRTS(150)
                  COMMON /INO/ INO(150)
                  COMMON / LDERV/ LDERV
                  COMMON /LDNRTS/ LDNRTS
                  COMMON /MXI/ MXI
                  COMMON /RTS/ RTS(150)
                  COMMON /TDNRTS/ TDNRTS(150)
С
С
                  DO 250 IXXX1=1,MXI
                        I=INO(IXXX1)
                        TDNRTS(I)=0.
                        IF(.NOT.(COND(I).EQ.1.)) GO TO 210
                             CN=AMIN1(FINC,1.)
                             CR=0.
                             CC=-1. **CN
      210
                   CONTINUE
                        IF(.NOT.(COND(I).LT.1.)) GO TO 220
                             CN=AMIN1(FINC,RTS(I))
                             CR=-1.*CN
                             CC=0.
       220
                       CONTINUE
                        IF(.NOT.(CN.GT.0.)) GO TO 230
                             TDNRTS(I) = (CHLCC(CC, CR, CN, I))/1000000.
       230
                        CONTINUE
                        IF(.NOT.(TDNRTS(I).GT.-0.000001)) GO TO 240
                             TDNRTS(I)=0.
      240
                        CONTINUE
      250 CONTINUE
                  DO 999 IXXX=1,MXI
                       IDNRTS(IXXX) = INO
                                                                               (IXXX)
      999 CONTINUE
                  LD=LDNRTS
                   IF (PRNTXX.NE.0) LD=MAXO(LD,LDERV )
```

CALL TDSORT(TDNRTS, IDNRTS, LD, MXI
C
RETURN
END

SUBROUTINE DOOND

```
C
                                                                                                                                                                                                                                                                                            810625 085529415
Consideration and a production of the consideration C* COMPUTES ITEM CONDEMNATION RATE -
C* COND(I) FACTOR - DCOND
Considerate the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the first and the 
С
                              COMMON /PRNTXX/ PRNTXX
                              INTEGER PRNTXX
                              COMMON /COND/ COND(150)
                              COMMON /FINC/ FINC
                             COMMON /I/ I
                              COMMON /IDCOND/ IDCOND(150)
                              COMMON /INO/ INO(150)
                              COMMON /LDCOND/ LDCOND
                             COMMON /LDERV/ LDERV
                              COMMON /MXI/ MXI
                             COMMON /NRTS/ NRTS(150)
                             REAL NRTS
                             COMMON /RTS/ RTS(150)
                             COMMON /TDCOND/ TDCOND(150)
C
                             DO 250 1XXX1=1,MX1
                                        I≈INO(IXXX1)
                                        TDCOND(I)=0.
                                        IF(.NOT.(COND(I).EQ.1.)) GO TO 210
                                                 CC=0.
                                                 CR=0.
                                                 CN=0.
          210
                                   CONTINUE
                                        IF(.NOT.(COND(I).LT.1.)) GO TO 220
                                                CC=AMINI(FINC, 1.-COND(I))
                                                 CR=-1.*RTS(I)/(RTS(I)+NRTS(I))*CC
                                                 CN=-1.*NRTS(I)/(RTS(I)+NRTS(I))*CC
          220
                                        CONTINUE
                                        IF(.NOT.(CC.GT.0.)) GO TO 230
                                                TDCOND(I) = (CHLCC(CC, CR, CN, I)) / 1000000.
         230
                                        CONTINUE
                                        IF(.NOT.(TDCOND(I).GT.-0.000001)) GO TO 240
                                                 TDCOND(I)=0.
          240
                                      CONTINUE
         250 CONTINUE
                             IXM, I = XXXI = 0.00
                                       IDCOND(IXXX)≠INO
                                                                                                                                      (IXXX)
         999 CONTINUE
```

```
LD=LDCOND
IF (PRNTXX.NE.0) LD=MAXO(LD, LDERV)
CALL TDSORT(TECOND, 1DCOND, LD, MXI)

RETURN
END
```

С

SUBROUTINE DSRU

```
C
                                                                                                                                                                                                                                                                                       810625 085532708
Carrier to the first the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first to the first 
C*. ATU MOD JRC - 5 JUN 80
                                                                                                                                                                                                                                                                                                                                                                  **
               COMPUTES SENSITIVITY ON WHICH SRUS
                                                                                                                                                                                                                                                                                                                                                                  *
C* SHOULD BE LRUS - DSRU
Cute the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of 
С
                              COMMON /PRNTXX/ PRNTXX
                              INTEGER PRNTXX
                              COMMON /A/ A(150,4,3)
                              INTEGER A
                              COMMON /B/ B
                              INTEGER B
                              COMMON /BAA/ BAA
                              COMMON /BCMH/ BCMH(150)
                              COMMON /BLR/ BLR
                              COMMON /BMF/ BMF
                              COMMON /BMH/ BMH(150)
                              COMMON /BRCT/ BRCT
                              COMMON /BTYPE/ BTYPE(10)
                              INTEGER BTYPE
                              COMMON /CIMF/ CIMF(10)
                              COMMON /COND/ COND(150)
                              COMMON /CPPC/ CPPC
                              COMMON /CPPD/ CPPD(3)
                              COMMON /CRCT/ CRCT
                              COMMON /CSE/ CSE(120)
                              COMMON /DAA/ DAA
                              COMMON /DLR/ DLR
                              COMMON / DMF / DMF
                              COMMON /DMH/ DMH(150)
                              COMMON /DRCT/ DRCT(3)
                              COMMON /ERHBI/ ERHBI(150,10)
                              COMMON /FAIL/ FAIL(150,10)
                              COMMON /FPR/ FPR(150)
                              COMMON /I/ I
                               COMMON /IDSRU/ IDSRU(150)
                               COMMON /INO/ INO(150)
                               COMMON / IRMIN/ IRMIN(150,4)
                               COMMON / IRMT/ IRMT
                               COMMON /ISCA/ ISCA(150)
                               REAL ISCA
                              COMMON / ISET/ ISET(120,10)
                               REAL ISET
                              COMMON /ISETD/ ISETD(120)
                              REAL ISETD
```

COMMON /L/ L COMMON /LDERV/ LDERV COMMON /LDSRU/ LDSRU COMMON /LO/ LO(10) COMMON /LRU/ LRU(150) COMMON /LT/ LT COMMON /MSE/ MSE(120) REAL MSE COMMON /MXI/ MXI COMMON /MXIRMT/ MXIRMT COMMON /MXLT/ MXLT COMMON /MXNP/ MXNP COMMON /MXNS/ MXNS COMMON /NBC/ NBC(10) REAL NBC COMMON /NHB/ NHB(10) COMMON /NHI/ NHI(150) COMMON /NITEM/ NITEM(150,5) REAL NITEM COMMON /NJA/ NJA(150,4) COMMON /NP/ NP COMMON /NRM/ NRM(150) COMMON /NRTS/ NRTS(150) REAL NRTS COMMON /NRUC/ NRUC REAL NRUC COMMON /NS/ NS COMMON /OFMCA/ OFMCA(150) COMMON /OST/ OST(3) COMMON /OSTC/ OSTC COMMON /PIUP/ PIUP COMMON /QSA/ QSA(150,4,3) COMMON /RM/ RM(150) COMMON /RMI/ RMI(150,10) INTEGER RMI COMMON /RSCA/ RSCA(150) COMMON /RTS/ RTS(150) COMMON /SA/ SA COMMON /SAT/ SAT(10) COMMON /TDSRU/ TDSRU(150) COMMON /TISQ/ TISQ(150) COMMON /TNB/ TNB(10) COMMON /TOTT/ TOTT(5) COMMON /UP/ UP(150) COMMON /USE/ USE(120,10) COMMON /USED/ USED(120) COMMON /WT/ WT(150)

```
COMMON /XFPR/ XFPR
    COMMON /XITEMQ/ XITEMQ(150)
    COMMON /XUC/ XUC
    COMMON /YRSQ/ YRSQ(150)
    DIMENSION DINFB(150,10)
    DIMENSION DINFD(150)
    DIMENSION DNHNFB(150,10)
    DIMENSION DNHNFD(150)
    REAL NXXX2
    DIMENSION RNHMH(150,10)
    DO 520 IXXX1=1,MXI
      I=INO(IXXX1)
      TDSRU(I)=0.
      IF(.NOT.(NHI(I).NE.0)) GO TO 510
        IF(.NOT.(LRU(I).EQ.O.AND.LRU(NHI(I)).EQ.1)) GO TO 500
          DO 260 NS=1, MXNS
            IF(.NOT.(BTYPE(NS).EQ.3)) GO TO 210
              DNHNFB(I,NS)=(FAIL(NHI(I),NS)-FAIL(I,NS))*(1.+FPR(NHI(I))
              DINFB(I,NS)=FAIL(I,NS)*(1.+FPR(NHI(I)))*OSTC
210
            CONTINUE
            IF(.NOT.(BTYPE(NS).NE.3)) GO TO 240
              TEM01=0.
              DO 220 B=1,MXNS
                IF(.NOT.(NHB(B).EQ.NS)) GO TO 220
                TEMO1=TEMO1+AMAX1((FAIL(NHI(I),B)-FAIL(I,B)),O.)*
                  NBC(B)
220
              CONTINUE
              DNHNFB(I,NS)=AMAX1((FAIL(NHI(I),NS)-FAIL(I,NS)),0.)*
                ((FPR(NHI(I))*XFPR+RTS(NHI(I)))*BRCT+(NRTS(NHI(I))+
                COND(NHI(I)))*OST(LO(NS)))+CIMF(NS)*TEMO1*((RTS(NHI(I)
                )+FPR(NHI(I))*XFPR)*CRCT+(NRTS(NHI(I))+COND(NHI(I)))*
                (OST(LO(NS))+U(FPR(NHI(I))*XFPR)*CRCT))
              TEM02=0.
              DO 230 B=1,MXNS
                IF(.NOT.(NHB(B).EQ.NS)) GO TO 230
                TEM02=TEM02+FAIL(I,B)*NBC(B)
230
              CONTINUE
              DINFB(I,NS)=FAIL(I,NS)*((FPR(NHI(I))*XFPR+RTS(I))*BRCT+
                (NRTS(I)+COND(I))*OST(LO(NS))+CIMF(NS)*TEM02*((RTS(I)
                +FPR(NHI(I))*XFPR)*CRCT+(NRTS(I)+COND(I))*(OST(LO(NS))
                +U(FPR(NHI(I))*XFPR)*CRCT))
240
            CONTINUE
            RNHMH(I,NS)=0.
            IF(.NOT.(FAIL(NHI(I),NS).GT.0.001)) GO TO 250
```

```
RNHMH(I,NS)=AMINI(FAIL(I,NS)/FAIL(NHI(I),NS),1.)
                ERHBI(NHI(I),NS)
250
            CONTINUE
260
          CONTINUE
          TEM03=0.
          DO 270 NS=1,MXNS
            TEM03=TEM03+AMAX1((FAIL(NHI(I),NS)-FAIL(I,NS)),0.)*TNB(NS)
              *NRTS(NHI(I))*DRCT(LO(NS))
270
          CONTINUE
          DNHNFD(I)=TEM03
          TEM04=0.
          DO 280 NS=1,MXNS
            TEMO4=TEMO4+FAIL(I,NS)*TNB(NS)*NRTS(I)*DRCT(LO(NS))
280
          CONTINUE
          DINFD(I)=TEM04
          TEM05=0.
          DO 290 NP=1,MXNP
            TEM05=TEM05+TOTT(NP)*NITEM(I,NP)
290
          CONTINUE
          TEM06=0.
          DO 300 NS=1,MXNS
            TEM06=TEM06+TNB(NS)*F(DINFB(I,NS))
300
          CONTINUE
          TEM07=0.
          DO 310 NS=1, MXNS
            TEMO7=TEMO7+AMIN1(FAIL(I,NS),FAIL(NHI(I),NS))*TNB(NS)
310
          CONTINUE
          XITEMO(I)=TEMO5+TEMO6+F(DINFD(I))-TISQ(I)+12.*NRUC*TEMO7*
            (1.-COND(NHI(I)))-NRUC*YRSQ(I)
          TEM08=0.
          DO 320 NS=1, MXNS
            TEM08=TEM08+TNB(NS)*F(DNHNFB(I,NS))
320
          CONTINUE
          TEM09=0.
          DO 330 NS=1,MXNS
            TEM09=TEM09+AMAX1((FAIL(NHI(I),NS)-FAIL(I,NS)),0.)*TNB(NS)
          CONTINUE
330
          XITEMQ(NHI(I))=TEM08+F(DNHNFD(I))-TISQ(NHI(I))+12.*NRUC*
            TEMO9*(1.-COND(NHI(I)))-NRUC*YRSQ(NHI(I))
          TEM10=0.
          DO 340 NS=1,MXNS
            TEM10=TEM10+AMAX1((FAIL(NHI(I),NS)-FAIL(I,NS)),0.)*TNB(NS)
340
          CONTINUE
          TEMP1=12. *TEM10
          TEM11=0.
          DO 350 NS=1,MXNS
            TEM11=TEM11+AMIN1(FAIL(I,NS),FAIL(NHI(I),NS))*TNB(NS)
```

```
350
          CONTINUE
          TEMP2=12.*TEM11*(1.-COND(NHI(I)))
          TEM12=0.
          DO 360 NS=1,MXNS
            TEM12=TEM12+TNB(NS)*F(DNHNFB(I,NS))
360
          CONTINUE
          TEM13=0.
          DO 370 NS=1, MXNS
            TEM13=TEM13+TNB(NS)*F(DINFB(I,NS))
370
          CONTINUE
          TDSRUA=(TEM12+F(DNHNFD(I)))*(UP(NHI(I))-UP(I))*XLEARN(NHI(I)
            )*XUC-ISCA(NHI(I))+(TEM13+F(DINFD(I)))*UP(I)*XLEARN(I)*
            XUC-ISCA(I)+TEMP1*AMAX1((UP(NHI(I))-UP(I)),0.)*XUC*((NRUC*
            XLEARN(NHI(I))+(PIUP-NRUC))*COND(NHI(I))+PIUP*(1.-
            COND(NHI(I)))*RM(NHI(I)))-RSCA(NHI(I))+TEMP2*UP(I)*XUC*
            ((NRUC*XLEARN(I)+(PIUP-NRUC))*COND(I)+PIUP*(1.-COND(I))*
            RM(I))-RSCA(I)
          TEM14=0.
          DO 380 NS=1,MXNS
            TEM14=TEM14+AM/X1((FAIL(NHI(I),NS)-FAIL(I,NS)),0.)*TNB(NS)
              *(((1.+FPR(NHI(I))*XFPR)*BCMH(NHI(I))+RTS(NHI(I))*
              BMH(NHI(I)))*BMF*BLR+NRTS(NHI(I))*(DMH(NHI(I))*DMF*DLR+
              2.*CPPD(LO(NS))*(WT(NHI(I))-WT(I)))+COND(NHI(I))*
              CPPD(LO(NS))*(WT(NHI(I))-WT(I))+SAT(NS)*(1.+FPR(NHI(I))*
              XFPR)*2.*CPPC*(WT(NHI(I))-WT(I)))
380
          CONTINUE
          TEM15=0.
          DO 390 NS=1,MXNS
            TEM15=TEM15+AMIN1(FAIL(NHI(I),NS),FAIL(I,NS))*TNB(NS)*
              (((1.+FPR(NHI(I))*XFPR)*BCMH(I)+RTS(I)*BMH(I))*BMF*BLR+
              NRTS(I)*(DMH(I)*DMF*DLR+2.*CPPD(LO(NS))*WT(I))+COND(I)*
              CPPD(LO(NS))*WT(I)+SAT(NS)*(1.+FPR(NHI(I))*XFPR)*2.*
              CPPC*WT(I))
390
          CONTINUE
          TDSRUB=12.*PIUP*TEM14-OFMCA(NHI(I))+12.*PIUP*TEM15-OFMCA(I)
          NXXX1=NRM(NHI(I))
          TDSRUC=0.
          IF(.NOT.(NXXX1.GT.0)) GO TO 470
            DO 450 IRMT=1,MXIRMT
              IF(.NOT.(IRMT.LE.NXXX1)) GO TO 460
              IF(.NOT.(IRMIN(NHI(I),IRMT).EQ.
                RMI(NHI(I), NS))) GO TO 440
                NXXX2=NJA(NHI(I), IRMT)
                IF(.NOT.(NXXX2.GT.0)) GO TO 430
                  DO 410 LT=1,MXLT
                    IF(.NOT.(LT.LE.NXXX2)) GO TO 420
                    L=A(NHI(I),IRMT,LT)
```

```
DO 400 NS=1, MXNS
                      TDSRUC=TDSRUC+U(QSA(NHI(I), IRMT, LT)-
                         AINT(QSA(NHI(I), IRMT, LT)/100.)*100.)*TNB(NS)*
                         (USE(L,NS)*RNHMH(I,NS)*ISET(L,NS)/BAA+USED(L)*
                         AMIN1(FAIL(I,NS),FAIL(NHI(I),NS))*NRTS(NHI(I))*
                        DMH(NHI(I))*DMF*ISETD(L)/DAA)*CSE(L)*(1.+PIUP*
                         MSE(L))
  400
                      CONTINUE
  410
                    CONTINUE
                    CONTINUE
  420
                  CONTINUE
  430
                CONTINUE
  440
              CONTINUE
  450
              CONTINUE
  460
              TDSRUC=-1.*TDSRUC
  470
            CONTINUE
            TEM16=0.
            DO 480 NS=1,MXNS
              TEM16=TEM16+U(FAIL(I,NS))*SAT(NS)*TNB(NS)
  480
            CONTINUE
            TDSRUD=PIUP*SA*TEM16
            TDSRU(I) = (TDSRUA+TDSRUB+TDSRUC+TDSRUD)/1000000.
            IF(.NOT.(TDSRU(1).GT.-0.000001)) GO TO 490
              TDSRU(1)\approx 0.
  490
            CONTINUE
  500
          CONTINUE
  510
        CONTINUE
  520 CONTINUE
С
      DO 999 IXXX=1,MXI
        IDSRU (IXXX)=INO
                            (IXXX)
  999 CONTINUE
      LD=LDSRU
      IF (PRNTXX.NE.O) LD=MAXO(LD, LDERV )
      CALL TDSORT(TDSRU ,IDSRU ,LD,MXI
С
      RETURN
      END
```

SUBROUTINE DXMIL

TDMIL=TEM04

```
C
                                                                                                                                                                                                                                                                                                                      810625 085604052
Calculate the first that the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
                     COMPUTES GLOBAL SENSITIVITY WITH RESPECT TO
C* MOD/I LABOR HOURS
Cut all what had to be the later that the second to the state that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later that the later than the later that the later that the later that the later that
С
                                 COMMON /FINC/ FINC
                                 COMMON /FR/ FR(3,5)
                                 COMMON /IA/ IA
                                 COMMON /LDERV/ LDERV
                                 COMMON /M/ M
                                 COMMON /MILR/ MILR(3)
                                 REAL MILR
                                 COMMON /MIMH/ MIMH(4,3,5)
                                 REAL MIMH
                                  COMMON /MXM/ MXM
                                  COMMON /MXNP/ MXNP
                                 COMMON /MXNS/ MXNS
                                 COMMON /NIA/ NIA
                                 COMMON /NP/ NP
                                 COMMON /NPLT/ NPLT(5,10)
                                  REAL NPLT
                                  COMMON /NS/ NS
                                 COMMON /TDMIL/ TDMIL
                                 COMMON /TDXMIL/ TDXMIL
                                 COMMON /TNB/ TNB(10)
                                 COMMON /XMIL/ XMIL
С
                                 TEM04=0.
                                  DO 240 NP=1, MXNP
                                             TEM01=0.
                                             DO 210 NS=1, MXNS
                                                        TEMO1=TEMO1+TNB(NS)*NPLT(NP,NS)
            210
                                            CONTINUE
                                            TEM03=0.
                                            DO 230 M=1,MXM
                                                        TEM02=0.
                                                        DO 220 IA=1,NIA
                                                                   TEM02=TEM02+MIMH(IA,M,NP)*XMIL
            220
                                                        CONTINUE
                                                        TEMO3=TEMO3+FR(M,NP)*MILR(M)*TEMO2
            230
                                            CONTINUE
                                             TEMO4=TEMO4+TEMO1*TEMO3/1000000.
            240 CONTINUE
```

TDXMIL=FINC*TDMIL

С

RETURN ENI

SUBROUTINE OTAB1

```
810625 085608386
Company and a grant and a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a grant a g
C:;
            PRINTS A SUMMARY BY TOP-LEVEL
            COST ELEMENTS
            ATU MOD LCR - 28 MAY 80
Culturate de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tradectiva de tra
C
                    COMMON / PRNTXX/ PRNTXX
                    INTEGER PRNTXX
                   COMMON /FSEDC/ FSEDC
                    COMMON /IIMC/ IIMC
                   REAL IIMC
                   COMMON /ISC/ ISC
                    REAL ISC
                    COMMON /MIC/ MIC
                    REAL MIC
                    COMMON /MTRC/ MTRC
                    REAL MTRC
                    COMMON /OC/ OC
                    COMMON /OFMC/ OFMC
                    COMMON /ONMC/ ONMC
                    COMMON /RSC/ RSC
                    COMMON /SEDC/ SEDC
                    COMMON /SEPC/ SEPC
                    COMMON /STDC/ STDC
                    COMMON /TERMH/ TERMH
                    COMMON /TERMI/ TERMI
                    COMMON /TSEC/ TSEC
             1 FORMAT(1H1,15X,50HOUTPUT TABLE 1: SUMMARY BY TOP-LEVEL COST ELEMEN
                +TS/24X,33H(IN MILLIONS OF CONSTANT DOLLARS)//8X,12HPROGRAM COST,5X
                +,11HDEVELOPMENT,3X,10HPRODUCTION,4X,7HSUPPORT,12X,5HTOTAL//)
             2 FORMAT(2X,20HFULL SCALE ENG. DEVT,5X,F6.2,10X,F4.2,8X,F4.2,12X,F6.
               +2)
             3 FORMAT(2X,15HPRODUCTION:PME ,12X,F4.2,8X,F6.2,8X,F4.2,12X,F6.2)
             4 FORMAT(13X,7HOTHER*,9X,F4.2,8X,F6.2,8X,F4.2,12X,F6.2)
             5 FORMAT(2X,10HOPERATIONS,17X,F4.2,10X,F4.2,6X,F6.2,12X,F6.2)
             6 FORMAT(2X,16HMOD/INSTALLATION,11X,F4.2,8X,F6.2,8X,F4.2,12X,F6.2)
             7 FORMAT(2X,17HSPARES:INVESTMENT,10X,F4.2,8X,F6.2,8X,F4.2,12X,F6.2)
             8 FORMAT(9X,11HREPLACEMENT,9X,F4.2,10X,F4.2,6X,F6.2,12X,F6.2)
             9 FORMAT(2X,17HSUPPORT EQUIPMENT,8X,F6.2,8X,F6.2,8X,F4.2,12X,F6.2)
          10 FORMAT(2X,12HON EQUIPMENT,15X,F4.2,10X,F4.2,6X,F6.2,12X,F6.2)
          11 FORMAT(2X,13HOFF EQUIPMENT,14X,F4.2,10X,F4.2,6X,F6.2,12X,F6.2)
          12 FORMAT(2X,8HTRAINING,19X,F4.2,10X,F4.2,6X,F6.2,12X,F6.2)
          13 FORMAT(2X,20HINVENTORY MANAGEMENT,7X,F4.2,10X,F4.2,6X,F6.2,12X,F6.
          14 FORMAT(2X,16HTECHNICAL ORDERS,11X,F4.2,8X,F6.2,8X,F4.2,12X,F6.2/)
```

```
15 FORMAT(12X, 10HTOTAL COST, 5X, F6.2, 8X, F6.2, 6X, F6.2, 10X, F8.2)
   16 FORMAT(////48H * "OTHER" INCLUDES SYSTEMS TEST, SYSTEM/PROJECT, 35
     +H MANAGEMENT, DATA (EXCEPT TECHNICAL, 36H ORDERS), AND INDUSTRIAL F
     +ACILITIES.)
С
С
C
      TEMP1=TERMH/1000000.
      TEMP2=TERMI/1000000.
      TEMP3=OC/1000000.
      TEMP4=MIC/1000000.
      TEMP5=ISC/1000000.
      TEMP6=RSC/1000000.
      TEMP7=SEDC/1000000.
      TEMP8=SEPC/1000000.
      TEMP9=TSEC/1000000.
      TEMPA=ONMC/1000000.
      TEMPB=OFMC/1000000.
      TEMPC=MTRC/1000000.
      TEMPD=IIMC/1000000.
      TEMPE=STDC/1000000.
      TEMPF=FSETC/1000000.
      T1=TEMP1+TEMP2+TEMP4+TEMP5+TEMP8+TEMPE
      T2=TEMP3+TEMP6+TEMPA+TEMPB+TEMPC+TEMPD
      T4=TEMPF+TEMP7
      T3=T4+T1+T2
      ZERO=0.00
      IF(PRNTXX.NE.O) WRITE(7, 1)
       IF(PRNTXX.NE.1) WRITE(06, 1)
       IF(PRNTXX.NE.0) WRITE( 7, 2) TEMPF, ZERO, ZERO, TEMPF
       IF(PRNTXX.NE.1) WRITE(06, 2) TEMPF, ZERO, ZERO, TEMPF
       IF(PRNTXX.NE.O) WRITE( 7, 3) ZERO, TEMP1, ZERO, TEMP1
       IF(PRNTXX.NE.1) WRITE(06, 3) ZERO, TEMP1, ZERO, TEMP1
       IF(PRNTXX.NE.O) WRITE( 7, 4) ZERO, TEMP2, ZERO, TEMP2
       IF(PRNTXX.NE.1) WRITE(06, 4) ZERO, TEMP2, ZERO, TEMP2
       IF(PRNTXX.NE.O) WRITE( 7, 5) ZERO, ZERO, TEMP3, TEMP3
       IF(PRNTXX.NE.1) WRITE(06, 5) ZERO, ZERO, TEMP3, TEMP3
       IF(PRNTXX.NE.O) WRITE(7, 6) ZERO, TEMP4, ZERO, TEMP4
       IF(PRNTXX.NE.1) WRITE(06, 6) ZERO, TEMP4, ZERO, TEMP4
       IF(PRNTXX.NE.O) WRITE( 7, 7) ZERO, TEMP5, ZERO, TEMP5
       IF(PRNTXX.NE.1) WRITE(06, 7) ZERO, TEMP5, ZERO, TEMP5
       IF(PRNTXX.NE.O) WRITE( 7, 8) ZERO, ZERO, TEMP6, TEMP6
       IF (PRNTXX.NE.1) WRITE(06, 8) ZERO, ZERO, TEMP6, TEMP6
       IF(PRNTXX.NE.O) WRITE( 7, 9) TEMP7, TEMP8, ZERO, TEMP9
       IF(PRNTXX.NE.1) WRITE(06, 9) TEMP7, TEMP8, ZERO, TEMP9
       IF(PRNTXX.NE.O) WRITE( 7,10) ZERO, ZERO, TEMPA, TEMPA
       IF(PRNTXX.NE.1) WRITE(06,10) ZERO, ZERO, TEMPA, TEMPA
```

```
IF(PRNTXX.NE.0) WRITE( 7,11) ZERO, ZERO, TEMPB, TEMPB IF(PRNTXX.NE.1) WRITE(06,11) ZERO, ZERO, TEMPB, TEMPB IF(PRNTXX.NE.0) WRITE( 7,12) ZERO, ZERO, TEMPC, TEMPC IF(PRNTXX.NE.1) WRITE(06,12) ZERO, ZERO, TEMPC, TEMPC IF(PRNTXX.NE.0) WRITE( 7,13) ZERO, ZERO, TEMPD, TEMPD IF(PRNTXX.NE.1) WRITE(06,13) ZERO, ZERO, TEMPD, TEMPD IF(PRNTXX.NE.0) WRITE( 7,14) ZERO, TEMPE, ZERO, TEMPE IF(PRNTXX.NE.1) WRITE(06,14) ZERO, TEMPE, ZERO, TEMPE IF(PRNTXX.NE.0) WRITE( 7,15) T4,T1,T2,T3 IF(PRNTXX.NE.1) WRITE(06,15) T4,T1,T2,T3 IF(PRNTXX.NE.0) WRITE( 7,16)
```

С

193

SUBROUTINE CTAB2

```
810625 085622166
Current en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre entre en entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre e
C# PRINTS PLATFORM MODIFICATION/INSTALLATION COSTS
C
             COMMON /PRNTXX/ PRNTXX
             INTEGER PRNTXX
             COMMON /AKIT/ AKIT(4,5)
             COMMON /FR/FR(3,5)
             COMMON / TA/ TA
             COMMON /M/ M
             COMMON /MIFIX/ MIFIX(3,5)
             REAL MIFIX
             COMMON /MILR: MILR(3)
             REAL MILR
             COMMON /MIMH/ MIMH(4,3,5)
             REAL MIMH
             COMMON /MXM MXM
             COMMON /MXNP/ MXNP
             COMMON /MXNS/ MXNS
             COMMON NIA NIA
             COMMON INP INP
             COMMON (NPLT) NPLT(5,10)
             REAL NPLT
             COMMON /NS. NS.
             COMMON PNOUN PNOUN(5,12)
             COMMON TMIL TMIL
             COMMON (TNB TNB(10)
             COMMON SEMIL NMIL
         1 FORMATCHH1 30X,56H0UTPUT TABLE 2: PLATFORM MODIFICATION/INSTALLATI
           +ON COSTS 37X, 33H(IN MILLIONS OF CONSTANT DOLLARS)////30X,45H****REC
           +URRING MODEL COST TOTALS BY PLATFORM***//26X,5HFIXED,22X,6HRETRO-,
           +3X,5HPRDC-,10X,1H2+3X,5HPLAT-,18X,5HPLAT.,4X,5HA-KIT,13X,3HFIT,6X,
           +4HTION, 11X, 1H4, 1X, 30HA-KIT PLUS LABOR COSTS BY AREA/3X, 4HFORM, 19X,
           +5HPREP/,4X,6HEQUIP-,3X,5HMOD/I,4X,5HMOD/I,4X,5HMOD/I,10X,1H*,1X,35
            +(1H-)/3X.5HINDEX,1X.13HPLATFORM NAME,4X,5HRSTR.,4X,4HMENT,5X,5HLAB
           +OR, 4X, 5HTOTAL, 4X, 5HTOTAL, 4X, 5HTOTAL, 1X, 1H*, 1X, 7HANTENNA, 2X, 8HELEC.
           +BOX, 2X, 7HCNTL.HD, 2X, 7HCABLING/3X, 4H(NP)/)
         2 FORMAT(3X,13,2X,12A1,3X,6(F8.3,1X),1X,F8.3,2X,F8.3,1X,F8.3,1X,F8.3
         3 FORMAT(\frac{4}{4}, 18(1H-), 1X, 6(8(1H-), 1X), 1X, 8(1H-), 2X, 8(1H-), 1X, 8(1H-), 1
            +X.8(1H-)/5X.11HCOST TOTALS, 6X.6(F9.3), 1X.F9.3, 1X.3F9.3
C
С
С
C....ONLY PRINT THIS TABLE IF OFF-LINE OUTPUT WAS REQUESTED
```

```
IF(PRNTXX.EQ.0) RETURN
С
      WRITE( 7, 1)
      T11=0.
      T12=0.
      TMIL=0.
      T14=0.
      T15=0.
      T16=0.
      T17=0.
      T18=0.
      T19=0.
      T20=0.
      DO 330 NP=1, MXNP
        TEM01=0.
        DO 210 NS=1,MXNS
          TEM01=TEM01+TNB(NS)*NPLT(NP,NS)
  210
        CONTINUE
        TPLT=TEM01
        TEM02=0.
        DO 220 M=1,MXM
          TEM02=TEM02+FR(M,NP)*(MIFIX(M,NP)*1000.)
  220
        CONTINUE
        T1=TPLT*TEM02/1000000.
        TEM03=0.
        DO 230 IA=1,NIA
          TEM03=TEM03+AKIT(IA,NP)
  230
        CONTINUE
        T2=TPLT*TEM03/1000000.
        TEM05=0.
        DO 250 M=1,MXM
          TEM04=0.
          DO 240 IA=1,NIA
            TEMO4=TEMO4+MIMH(IA,M,NP)*XMIL
  240
          CONTINUE
          TEMO5=TEMO5+FR(M,NP)*MILR(M)*TEMO4
  250
        CONTINUE
        T3=TPLT*TEM05/1000000.
        TEM06=0.
        DO 260 IA=1,NIA
          TEM06=TEM06+MIMH(IA,2,NP)*XMIL*MILR(2)+AKIT(IA,NP)
        CONTINUE
  260
        TEM07=0.
        DO 270 IA=1,NIA
          TEMO7=TEMO7+MIMH(IA,3,NP)*XMIL*MILR(3)+AKIT(IA,NP)
        CONTINUE
  270
        T4=TPLT*(FR(2,NP)*((MIFIX(2,NP)*1000.)+TEM06)+FR(3,NP)*
```

```
((MIFIX(3,NP) \pm 1000.) + TEM07))/1000000.
      TEM08=0.
      DO 280 IA=1,NIA
        TEM08=TEM08+MIMH(IA,1,NP)*XMIL*MILR(1)+AKIT(IA,NP)
      CONTINUE
280
      T5=TPLT\#FR(1,NP)\#((MIFIX(1,NP)\#1000.)+TEM08)/1000000.
      To=T4+T5
      TEM09=0.
      DO 290 M=1,MXM
        TEMO9=TEMO9+FR(M,NP)*MIMH(1,M,NP)*XMIL*MILR(M)
290
      CONTINUE
      T7=TPLT*(TEM09+AKIT(1,NP))/1000000.
      TEM10=0.
      DO 300 M≈1,MXM
        TEM10=TEM10+FR(M,NP)*MIMH(2,M,NP)*XMIL*MILR(M)
300
      T8=TPLT*(TEM10+AKIT(2,NP))/1000000.
      TEM11=0.
      DO 310 M=1,MXM
        TEM11=TEM11+FR(M,NP)*MIMH(3,M,NP)*XMIL*MILR(M)
310
      CONTINUE
      T9=TPLT*(TEM11+AKIT(3,NP))/1000000.
      TEM12=0.
      DO 320 M=1,MXM
        TEM12=TEM12+FR(M,NP)*MIMH(4,M,NP)*XMIL*MILR(M)
320
      CONTINUE
      T10=TPLT*(TEM12+AKIT(4,NP))/1000000.
      WRITE(7, 2) NP, (PNOUN(NP, K1), K1=1, 12), T1, T2, T3, T4, T5, T6, T7, T8,
        T9,T10
      T11=T11+T1
      T12=T12+T2
      TMIL=TMIL+T3
      T14=T14+T4
      T15=T15+T5
      T16=T16+T6
      T17=T17+T7
      T18=T18+T8
      T19=T19+T9
      T20=T20+T10
330 CONTINUE
    WRITE(7, 3) T11,T12,TMIL,T14,T15,T16,T17,T18,T19,T20
    RETURN
    END
```

C

SUBROUTINE OTAB3A

```
С
                                                                                                                                                                                                    810625 085638712
Cute in the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission of the transmission o
             ATU MOD LCR - 21 MAY 80
            PRINTS OPERATION AND LOGISTICS SUPPORT
C* COST ELEMENTS - PART 1
Considerate describe de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la const
С
                     COMMON / PRNTXX/ PRNTXX
                      INTEGER PRNTXX
                     COMMON /AFC/ AFC
                     COMMON /BAFC/ BAFC(6)
                     COMMON /BISC/ BISC(6)
                     COMMON /BOFMC/ BOFMC(6)
                     COMMON /BOLC/ BOLC(6)
                     COMMON /BONMC/ BONMC(6)
                     COMMON /BRSC/ BRSC(6)
                     COMMON /ISC/ ISC
                     REAL ISC
                     COMMON /ISCB/ ISCB
                     REAL ISCB
                     COMMON /ISCD/ ISCD
                     REAL ISCD
                     COMMON /OFMC/ OFMC
                     COMMON /OFMCB/ OFMCB
                     COMMON /OFMCD/ OFMCD
                     COMMON /OLC/ OLC
                     COMMON /ONMC/ ONMC
                     COMMON /RSC/ RSC
               1 FORMAT(1H1/35X,62HOUTPUT TABLE 3: OPERATION AND LOGISTICS SUPPORT
                  + COST ELEMENTS/50X,33H(IN MILLIONS OF CONSTANT DOLLARS)//24X,1H!,2
                                                                                                                                    BASE ! AIR
                                                                                                                                                                                             GROUND ! DEPOT/11
                  +7X,57H! INDEP
                                                                            CIMF
                                                                                                        SATEL
                  +X,98HCOST ELEMENT ! INITIAL RECURRING TOTAL ! BASES
                                                                                                                                                                                                                        BASES
                                                                                                                                                                                                                                                   BA
                                                                                                  BASES ! TOTAL/24X, 1H!, 27X, 1H!, 31X, 1H!, 16X,
                                          TOTAL ! BASES
                  +1H!/10X,110(1H-)/24X,1H!,27X,1H!,31X,1H!,16X,1H!)
               2 FORMAT(7X,18HOPERATIONS LABOR !,9X,2(F6.2,3X),1H!,3(F6.2,2X),F6.2,
                  +1X,1H!,1X,2(F6.2,1X),1X,1H!)
               3 FORMAT(7X,10HADDED FUEL,7X,1H!,9X,2(F6.2,3X),1H!,3(F6.2,2X),F6.2,1
                 +X, 1H!, 1X, 2(F6.2, 1X), 1X, 1H!)
              4 FORMAT(7X, 18HINITIAL SPARES
                                                                                                                              !,1X,F6.2,11X,F6.2,3X,1H!,3(F6.2,2X)
                 +, F6.2, 1X, 1H!, 1X, 2(F6.2, 1X), 1X, 1H!, 1X, F6.2
              5 FORMAT(7X,18HREPLACE. SPARES !,9X,2(F6.2,3X),1H!,3(F6.2,2X),F6.2,
                  +1X,1H!,1X,2(F6.2,1X),1X,1H!)
              6 FORMAT(7X,18HON-EQUIP. MAINT. !,9X,2(F6.2,3X),1H!,3(F6.2,2X),F6.2,
                 +1X,1H!,1X,2(F6.2,1X),1X,1H!)
               7 FORMAT(7X,18HOFF-EQUIP. MAINT.!,9X,2(F6.2,3X),1H!,3(F6.2,2X),F6.2,
                  +1X,1H!,1X,2(F6.2,1X),1X,1H!,1X,F6.2
```

```
C
C
С
C....ONLY PRINT THIS TABLE IF OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.O) RETURN
С
      WRITE( 7, 1)
      T1=OLC/1000000.
      T2=BOLC(1)/1000000.
      T3=BOLC(2)/1000000.
      T4=BOLC(3)/1000000.
      T5=BOLC(4)/1000000.
      T6=BOLC(5)/1000000.
      T7 = BOLC(o)/1000000.
      WRITE(7, 2) T1, T1, T2, T3, T4, T1, T5, T6
      T1=AFC/1000000.
      T2=BAFC(1)/1000000.
      T3=BAFC(2)/1000000.
      T4=BAFC(3)/1000000.
      T5=BAFC(4)/1000000.
      T6=BAFC(5)/1000000.
      T7=BAFC(6)/1000000.
      WRITE( 7, 3) T1,T1,T2,T3,T4,T1,T5,T6
      T1=1SC/1000000.
      T2=BISC(1)/1000000.
      T3=BISC(2)/1000000.
      T4=BISC(3)/1000000.
      T5 = ISCB/1000000.
      T6=BISC(4)/1000000.
      T7=BISC(5)/1000000.
      T8=BISC(6)/1000000.
      T9=ISCD/1000000.
      WRITE( 7, 4) T1, T1, T2, T3, T4, T5, T6, T7, T9
      T1=RSC/1000000.
      T2=BRSC(1)/1000000.
      T3=BRSC(2)/1000000.
      T4=BRSC(3)/1000000.
      T5=BRSC(4)/1000000.
      T6=BRSC(5)/1000000.
      T7=BRSC(6)/1000000.
      WRITE( 7, 5) T1, T1, T2, T3, T4, T1, T5, T6
      T1=ONMC/1000000.
      T2=BONMC(1)/1000000.
      T3=BONMC(2)/1000000.
      T4=BONMC(3)/1000000.
      T5=BONMC(4)/1000000.
      T6=BONMC(5)/1000000.
```

```
T7=BONMC(6)/1000000.
WRITE( 7, 6) T1,T1,T2,T3,T4,T1,T5,T6
T1=OFMC/1000000.
T2=BOFMC(1)/1000000.
T3=BOFMC(2)/1000000.
T4=BOFMC(3)/1000000.
T5=OFMCB/1000000.
T6=BOFMC(4)/1000000.
T7=BOFMC(5)/1000000.
T7=BOFMC(6)/1000000.
T9=OFMCD/1000000.
WRITE( 7, 7) T1,T1,T2,T3,T4,T5,T6,T7,T9
RETURN
END
```

С

SUBROUTINE OTAB3B

```
C
                                                                                                                                                                  810625 085650989
C* ATU MOD LCR - 21 MAY 80
C* PRINTS OPERATION AND LOGISTICS SUPPORT
C# COST ELEMENTS - PART 2
Consideration in the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive of the contractive
                 COMMON /PRNTXX/ PRNTXX
                 INTEGER PRNTXX
                 COMMON /AFC/ AFC
                 COMMON /BAFC/ BAFC(6)
                 COMMON /BIIMC/ BIIMC(6)
                 COMMON /BISC/ BISC(6)
                 COMMON /BMTRC/ BMTRC
                 COMMON /BOFMC/ BOFMC(6)
                 COMMON /BOLC/ BOLC(6)
                 COMMON /BONMC/ BONMC(6)
                 COMMON /BPLAT/ BPLAT(10)
                 INTEGER BPLAT
                 COMMON /BRSC/ BRSC(6)
                 COMMON /BSECC/ BSECC(6)
                 COMMON /BSECP/ BSECP(6)
                 COMMON /BTCDI/ BTCDI
                 COMMON /BTDC/ BTDC(10)
                 COMMON /BTDCA/ BTDCA
                 COMMON /BTDCC/ BTDCC
                 COMMON /BTDCG/ BTDCG
                 COMMON /BTDC1/ BTDC1
                 COMMON /BTDCM/ BTDCM
                 COMMON /BTDCS/ BTDCS
                 COMMON /BTDCT/ BTDCT
                 COMMON /BTYPE/ BTYPE(10)
                 INTEGER BTYPE
                 COMMON / DMTRC/ DMTRC
                 COMMON /DTDC/ DTDC
                 COMMON / IIMC/ IIMC
                 REAL IIMC
                 COMMON / LIMCB/ LIMCB
                 REAL LIMCB
                 COMMON / IIMCD/ IIMCD
                 REAL IIMCD
                 COMMON / IIMCI/ IIMCI
                 REAL IIMCI
                 COMMON / HINCR/ HIMCR
                 REAL LIMOR
                 COMMON / IMTRC/ IMTRC
```

```
REAL IMTRC
 COMMON /ISC/ ISC
 REAL ISC
 COMMON /ISCB/ ISCB
 REAL ISCB
 COMMON /ISCD/ ISCD
 REAL ISCD
 COMMON /MTRC/ MTRC
 REAL MTRC
 COMMON /MXNS/ MXNS
 COMMON /NS/ NS
 COMMON /OFMC/ OFMC
 COMMON /OFMCB/ OFMCB
 COMMON /OFMCD/ OFMCD
 COMMON /OLC/ OLC
 COMMON /ONMC/ ONMC
 COMMON /RMTRC/ RMTRC
 COMMON /RSC/ RSC
 COMMON /SECBC/ SECBC
 COMMON /SECBP/ SECBP
 COMMON /SECC/ SECC
 COMMON /SECDC/ SECDC
 COMMON /SECDP/ SECDP
 COMMON /SECIC/ SECIC
 COMMON /SECIP/ SECIP
 COMMON /SECP/ SECP
 COMMON /SECRC/ SECRC
 COMMON /SECRP/ SECRP
 COMMON /STDC/ STDC
 COMMON /STDCI/ STDCI
 COMMON /STDCR/ STDCR
 COMMON /TNB/ TNB(10)
1 FORMAT(7X,18HSUPPORT EQUIPMENT!,27X,1H!,31X,1H!,16X,1H!)
2 FORMAT(7X,18H
                  COMMON
                                !,1X,F6.2,2X,2(F6.2,3X),1H!,3(F6.2,2
+X), F6.2, 1X, 1H!, 1X, 2(F6.2, 1X), 1X, 1H!, 1X, F6.2)
3 FORMAT(7X,18H
                  PECULIAR
                                 !,1X,F6.2,2X,2(F6.2,3X),1H!,3(F6.2,2
+X),F6.2,1X,1H!,1X,2(F6.2,1X),1X,1H!,1X,F6.2)
4 FORMAT(7X,18HINVENTORY MANAG. !,1X,F6.2,2X,2(F6.2,3X),1H!,3(F6.2,2
+X),F6.2,1X,1H!,1X,2(F6.2,1X),1X,1H!,1X,F6.2)
5 FORMAT(7X,18HMAINT. TRAINING* !,1X,F6.2,2X,2(F6.2,3X),1H!,3(6H --
   (2X), Fe. 2, 1X, 1H!, 1X, 2(6H -- ,1X), 1X, 1H!, 1X, F6. 2)
6 FORMAT (7X, 18HTECH. DATA
                                !, 1X, F6.2, 2X, 2(F6.2, 3X), 1H!, 3(F6.2, 2
+X), F6.2, 1X, 1H!, 1X, 2(F6.2, 1X), 1X, 1H!, 1X, F6.2)
7 FORMAT(10X,110(1H-))
8 FORMAT(24X,1H!,27X,1H!,31X,1H!,16X,1H!/12X,6HTOTALS,6X,1H!,1X,F6.2
+,2X,2(F6.2,3X),1H!,3(F6.2,2X),F6.2,1X,1H!,1X,F6.2,1X,F6.2,2X,1H!,1
+X,F6.2///)
```

```
9 FORMAT(2X,1H(,1H*,47H MAINT. TRAINING IS ALLOCATED TO BASE TOTAL A
     +ND,58H DEPOT TOTAL BUT IS NOT FURTHER ALLOCATED AMONG BASE TYPES,/
     +/)
   10 FORMAT(24X,16HNUMBER OF BASES:/24X,16(1H-)//28X,9HINDEP. = ,F5.0,9
     +X,15HAIR BASES = ,F5.0//28X,9HCIMF = ,F5.0,9X,15HGROUND BASES
     + = ,F5.0/66X,5(1H-)/28X,9HSATEL. = ,F5.0,9X,15HTOTAL
                                                                    = ,F5.
     +0/37X,5(1H-)/28X,9HTOTAL = ,F5.0
C
С
С
C....ONLY PRINT THIS TABLE IF OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.0) RETURN
C
      WRITE( 7, 1)
      T1=SECIC/1000000.
      T2=SECRC/1000000.
      T3=SECC/1000000.
      T4=BSECC(1)/1000000.
      T5 = BSECC(2)/1000000.
      T6=BSECC(3)/1000000.
      T7 = SECBC / 1000000.
      T8=BSECC(4)/1000000.
      T9=BSECC(5)/1000000.
      T10=BSECC(6)/1000000.
      T11=SECDC/1000000.
      WRITE(7, 2) T1, T2, T3, T4, T5, T6, T7, T8, T9, T11
      T1=SECIP/1000000.
      T2=SECRP/1000000.
      T3=SECP/1000000.
      T4=BSECP(1)/1000000.
      T5=BSECP(2)/1000000.
      T6 = BSECP(3)/1000000.
      T7=SECBP/1000000.
      T8=BSECP(4)/1000000.
      T9=BSECP(5)/1000000.
      T10=BSECP(6)/1000000.
      T11=SECDP/1000000.
      WRITE( 7, 3) T1,T2,T3,T4,T5,T6,T7,T8,T9,T11
      T1=IIMCI/1000000.
      T2=I IMCR/1000000.
      T3=IIMC/1000000.
      T4=BIIMC(1)/1000000.
      T5=BIIMC(2)/1000000.
      T6=BIIMC(3)/1000000.
      T7 = I IMCB / 1000000.
      T8=BIIMC(4)/1000000.
      T9=BIIMC(5)/1000000.
```

```
T10≈BIIMC(6)/1000000.
    T11=IIMCD/1000000.
    WRITE( 7, 4) T1, T2, T3, T4, T5, T6, T7, T8, T9, T11
    T1=IMTRC/1000000.
    T2=RMTRC/1000000.
    T3=MTRC/1000000.
    T7=BMTRC/1000000.
    T11=DMTRC/1000000.
    WRITE( 7, 5) T1, T2, T3, T7, T11
    TEM01=0.
    DO 210 NS=1, MXNS
      IF(.NOT.(BTYPE(NS).EQ.1)) GO TO 210
      TEM01=TEM01+BTDC(NS)
210 CONTINUE
    BTDCI=TEM01
    TEM02=0.
    DO 220 NS=1,MXNS
      IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 220
      TEM02=TEM02+BTDC(NS)
220 CONTINUE
    BTDCC=TEM02
    TEM03=0.
    DO 230 NS=1, MXNS
      IF(.NOT.(BTYPE(NS).EQ.3)) GO TO 230
      TEM03=TEM03+BTDC(NS)
230 CONTINUE
    BTDCS=TEM03
    TEM04=0.
    DO 240 NS=1,MXNS
      TEM04=TEM04+BTDC(NS)
240 CONTINUE
    BTDCT=TEM04
    TEM05=0.
    DO 200 NS=1,MXNS
      IF(.NOT.(BPLAT(NS).EQ.1)) GO TO 250
      TEMO5=TEMO5+BTDC(NS)
250 CONTINUE
    BTDCA=TEM05
    TEM06=0.
    DO 260 NS=1,MXNS
      IF(.NOT.(BPLAT(NS).EQ.2)) GO TO 260
      TEM06=TEM06+BTDC(NS)
260 CONTINUE
    BTDCG=TEM06
    TEM07=0.
    DO 270 NS=1, MXNS
      IF(.NOT.(BPLAT(NS).EQ.3)) GO TO 270
```

```
TEMO7=TEMO7+BTDC(NS)
270 CONTINUE
               BTDCM=TEMO7
               DTDC=STDC-BTDCT
               T1=STDCI/1000000.
               T2=STDCR/1000000.
               T3=STDC/1000000.
               T4=BTDCI/1000000.
               T5=BTDCC/1000000.
               T6=BTDCS/1000000.
               T7=BTDCT/1000000.
               T8=BTDCA/1000000.
               T9=BTDCG/1000000.
               T10=BTDCM/1000000.
               T11=DTDC/1000000.
               WRITE(7, 6) T1, T2, T3, T4, T5, T6, T7, T8, T9, T11
               WRITE( 7, 7)
               TEMP1=(ISC+SECIC+SECIP+IMTRC+STDCI+IIMCI)/1000000.
               TEMP2=(OLC+AFC+RSC+ONMC+OFMC+SECRC+SECRP+RMTRC+STDCR+IIMCR)/
            + 1000000.
               TEMP3=(OLC+AFC+ISC+RSC+ONMC+OFMC+SECC+SECP+MTRC+STDC+IIMC)/
            + 1000000.
              TEMP4 = (BOLC(1) + BAFC(1) + BISC(1) + BRSC(1) + BONMC(1) + BOFMC(1) + BSECC(1) +
           + BSECP(1)+BIIMC(1)+BTCDI)/1000000.
               TEMP5 = (BOLC(2) + BAFC(2) + BISC(2) + BRSC(2) + BONMC(2) + BOFMC(2) + BSECC(2) +
                  BSECP(2)+BIIMC(2)+BTDCC)/1000000.
               TEMP6=(BOLC(3)+BAFC(3)+BISC(3)+BRSC(3)+BONMC(3)+BOFMC(3)+BSECC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3)+BOFMC(3
           + BSECP(3)+BIIMC(3)+BTDCS)/1000000.
              TEMP7=(OLC+AFC+ISCB+RSC+ONMC+OFMCB+SECBC+SECBP+IIMCB+BMTRC+BTDCT)/
                    1000000.
               TEMP8 = (BOLC(4) + BAFC(4) + BISC(4) + BRSC(4) + BONMC(4) + BOFMC(4) + BSECC(4) +
           + BSECP(4)+BIIMC(4)+BTDCA)/1000000.
              TEMP9 = (BOLC(5) + BAFC(5) + BISC(5) + BRSC(5) + BONMC(5) + BOFMC(5) + BSECC(5) + BOFMC(5) + BOFM
                    BSECP(5)+BIIMC(5)+BTDCG)/1000000.
              TEM10 = (BOLC(6) + BAFC(6) + BISC(6) + BRSC(6) + BONMC(6) + BOFMC(6) + BSECC(6) +
                    BSECP(6)+BIIMC(6)+BTDCM)/1000000.
               TEM11=(ISCD+OFMCD+SECDC+SECDP+IIMCD+DMTRC+DTDC)/1000000.
               WRITE (7, 8) TEMP1, TEMP2, TEMP3, TEMP4, TEMP5, TEMP6, TEMP7, TEMP8,
            + TEMP9, TEM11
               WRITE( 7, 9)
               TEM08=0.
               DO 280 NS=1,MXNS
                       IF(.NOT.(BTYPE(NS).EQ.1)) GO TO 280
                       TEM08=TEM08+TNB(NS)
280 CONTINUE
               TNIB=TEM08
               TEM09=0.
```

```
DO 290 NS=1.MXNS
       IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 290
       TEMO9=TEMO9+TNB(NS)
 290 CONTINUE
     TNCB=TEM09
     TEM10=0.
     DO 300 NS=1,MXNS
       IF(.NOT.(BTYPE(NS).EQ.3)) GO TO 300
       TEM10=TEM10+TNB(NS)
 300 CONTINUE
     TNSB=TEM10
     TEM11=0.
     DO 310 NS=1,MXNS
        IF(.NOT.(BPLAT(NS).EQ.1)) GO TO 310
        TEM11=TEM11+TNB(NS)
 310 CONTINUE
      TNAB=TEM11
      TEM12=0.
      DO 320 NS=1, MXNS
        IF(.NOT.(BPLAT(NS).EQ.2)) GO TO 320
        TEM12=TEM12+TNB(NS)
 320 CONTINUE
      TNGB=TEM12
      TEM13=0.
      DO 330 NS=1,MXNS
        IF(.NOT.(BPLAT(NS).EQ.3)) GO TO 330
        TEM13=TEM13+TNB(NS)
  330 CONTINUE
      TNMB=TEM13
      TEMPA=TNIB+TNCB+TNSB
      TEMPB=TNAB+TNGB+TNMB
      WRITE (7,10) TNIB, TNAB, TNCB, TNGB, TNSB, TEMPB, TEMPA
С
      RETURN
      END
```

SUBROUTINE OTAB3C

REAL MTRC

```
810625 085702409
C* ATU MOD LCR - 21 MAY 80
C* PRINTS OPERATION AND LOGISTICS SUPPORT
C* COST ELEMENTS - PART 3 - FOR TERMINAL OUTPUT ONLY
Constitution to the location of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test of the test o
С
                 COMMON / PRNTXX/ PRNTXX
                 INTEGER PRNTXX
                 COMMON /AFC/ AFC
                 COMMON /BAFC/ BAFC(6)
                 COMMON /BIIMC/ BIIMC(6)
                 COMMON /BISC/ BISC(6)
                 COMMON / BOFMC/ BOFMC(6)
                 COMMON /BOLC/ BOLC(6)
                 COMMON /BONMC/ BONMC(6)
                 COMMON /BPLAT/ BPLAT(10)
                 INTEGER BPLAT
                 COMMON /BRSC/ BRSC(6)
                 COMMON /BSECC/ BSECC(6)
                 COMMON /BSECP/ BSECP(6)
                 COMMON /BTDC/ BTDC(10)
                 COMMON /BTDCA/ BTDCA
                 COMMON /BTDCG/ BTDCG
                 COMMON /BTDCM/ BTDCM
                 COMMON /BTDCT/ BTDCT
                 COMMON /BTYPE/ BTYPE(10)
                  INTEGER BTYPE
                  COMMON / DMTRC / DMTRC
                 COMMON /DTDC/ DTDC
                 COMMON / IIMC/ IIMC
                 REAL IIMC
                  COMMON / IIMCD/ IIMCD
                 REAL IIMCD
                  COMMON /IIMCI/ IIMCI
                  REAL IIMCI
                  COMMON /IIMCR/ IIMCR
                 REAL LIMCR
                  COMMON / IMTRC/ IMTRC
                  REAL IMTRC
                  COMMON /ISC/ ISC
                  REAL ISC
                  COMMON / ISCD/ ISCD
                  REAL ISCD
                  COMMON /MTRC/ MTRC
```

```
COMMON /OFMC/ OFMC
 COMMON /OFMCD/ OFMCD
 COMMON /OLC/ OLC
 COMMON /ONMC/ ONMC
 COMMON /RMTRC/ RMTRC
 COMMON /RSC/ RSC
 COMMON /SECC/ SECC
 COMMON /SECDC/ SECDC
 COMMON /SECDP/ SECDP
 COMMON /SECIC/ SECIC
 COMMON /SECIP/ SECIP
 COMMON /SECP/ SECP
 COMMON /SECRC/ SECRC
 COMMON /SECRP/ SECRP
 COMMON /STDC/ STDC
 COMMON /STDCI/ STDCI
 COMMON /STDCR/ STDCR
 COMMON /TNB/ TNB(10)
 REAL IT1
 REAL IT10
 REAL IT11
 REAL IT2
 REAL IT3
 REAL IT8
 REAL IT9
 REAL JT1
 REAL JT11
 REAL JT2
 REAL JT3
 REAL KT1
 REAL KT10
 REAL KT11
 REAL KT2
 REAL KT3
 REAL KT8
 REAL KT9
1 FORMAT(1H1//9X,62HOUTPUT TABLE 3: OPERATION AND LOGISTICS SUPPORT
+ COST ELEMENTS/23X,33H(IN MILLIONS OF CONSTANT DOLLARS)//18X,1H!,2
                  GROUND ! DEPOT/5X,66HCOST ELEMENT ! INITIAL RECU
+7X,25H! AIR
+RRING TOTAL ! BASES
                        BASES ! TOTAL/18X, 1H!, 27X, 1H!, 16X, 1H!/4X,
+67(1H-)/18X,1H!,27X,1H!,16X,1H!
2 FORMAT(1X,18HOPERATIONS LABOR !,9X,2(F6.2,3X),1H!,1X,2(F6.2,1X),1X
+,1H!)
3 FORMAT(1X,10HADDED FUEL,7X,1H!,9X,2(F6.2,3X),1H!,1X,2(F6.2,1X),1X,
+1H!)
```

COMMON /MXNS/ MXNS COMMON /NS/ NS

```
+1X),1X,1H!,1X,F6.2)
    5 FORMAT(1X,18HREPLACE, SPARES !,9X,2(F6.2,3X),1H!,1X,2(F6.2,1X),1X
     +,1H1)
    6 FORMAT(1X,18HON-EQUIP. MAINT. !,9X,2(F6.2,3X),1H!,1X,2(F6.2,1X),1X
     +,111!)
    7 FORMAT(1X,18HOFF-EQUIP. MAINT.!,9X,2(F6.2,3X),1H!,1X,2(F6.2,1X),1X
     +,1H!,1X,F6.2)
    8 FORMAT(1X,18HSUPPORT EQUIPMENT!,27X,1H!,16X,1H!)
                                     !,1X,F6.2,2X,2(F6.2,3X),1H!,1X,2(F6.
    9 FORMAT(1X,18H
                      COMMON
     +2,1X),1X,1H!,1X,F6.2)
                                     !, 1X, F6.2, 2X, 2(F6.2, 3X), 1H!, 1X, 2(F6.
   10 FORMAT(1X, 18H
                      PECULIAR
     +2,1X),1X,1H!,1X,F6.2)
   11 FORMAT(1X, 18HINVENTORY MANAG. !, 1X, F6.2, 2X, 2(F6.2, 3X), 1H!, 1X, 2(F6.
     +2,1X),1X,1H!,1X,F6.2
   12 FORMAT(1X,18HMAINT, TRAINING !,1X,F6.2,2X,2(F6.2,3X),1H!,16X,1H!,
     +1X, F6.2)
                                     !,1X,F6.2,2X,2(F6.2,3X),1H!,1X,2(F6.
   13 FORMAT(1X,18HTECH. DATA
     +2,1X),1X,1H!,1X,F6.2)
   14 FORMAT(4X,74(1H-))
   15 FORMAT(6X, 6HTOTALS, 6X, 1H!, 1X, F6.2, 2X, 2(F6.2, 3X), 1H!, 1X, 2(F6.2, 1X),
     +1X,1H!,1X,F6.2///)
   16 FORMAT(24X, 16HNUMBER OF BASES: /24X, 16(1h-)//28X, 9HINDEP. = , F5.0, 9
                       = .F5.0//28X,9HCIMF = .F5.0,9X,15HGROUND BASES
     +X,15HAIR BASES
     + = .F5.0/66X.5(1H-)/28X.9HSATEL. = .F5.0.9X.15HTOTAL
     +0/37X.5(1H-)/28X.9HTOTAL = .F5.0
C
С
С
      IF(PRNTXX.NE.1) WRITE(06, 1)
      AT1=OLC/1000000.
      AT5=BOLC(4)/1000000.
      AT_0 = BOLC(5)/1000000.
      AT7=BOLC(6)/1000000.
      IF(PRNTXX.NE.1) WRITE(06, 2) AT1, AT1, AT5, AT6
      BT1=AFC/1000000.
      BT5=BAFC(4)/1000000.
      BT6=BAFC(5)/1000000.
      BT7=BAFC(6)/1000000.
      IF(PRNTXX.NE.1) WRITE(06, 3) BT1,BT1,BT5,BT6
      CT1 = ISC/1000000.
      CT6=BISC(4)/1000000.
      CT7=BISC(5)/1000000.
      CT8=BISC(6)/1000000.
      CT9=1::CD/1000000.
      IF(PRNTXX.NE.1) WRITE(06, 4) CT1,CT1,CT6,CT7,CT9
      DT1=RSC/1000000.
```

4 FORMAT(1X,18HINITIAL SPARES !,1X,F6.2,11X,F6.2,3X,1H!,1X,2(F6.2,

```
DT5=BRSC(4)/1000000.
DT6=BRSC(5)/1000000.
DT7 = BRSC(6) / 1000000.
IF(PRNTXX.NE.1) WRITE(06, 5) DT1,DT1,DT5,DT6
ET1=ONMC/1000000.
ET5 = BONMC(4)/1000000.
ET6=BONMC(5)/1000000.
ET7 = BONMC(6) / 1000000.
IF(PRNTXX.NE.1) WRITE(06, 6) ET1, ET1, ET5, ET6
FT1=OFMC/1000000.
FT6=BOFMC(4)/1000000.
FT7 = BOFMC(5) / 1000000.
FT8=BOFMC(6)/1000000.
FT9=OFMCD/1000000.
IF(PRNTYX.NE.1) WRITE(06, 7) FT1,FT1,FT6,FT7,FT9
IF(PRNTXX.NE.1) WRITE(06, 8)
GT1=SECIC/1000000.
GT2=SECRC/1000000.
GT3=SECC/1000000.
GT8=BSECC(4)/1000000.
GT9=BSECC(5)/1000000.
GT10=BSECC(6)/1000000.
GT11=SECDC/1000000.
IF(PRNTXX.NE.1) WRITE(06, 9) GT1,GT2,GT3,GT8,GT9,GT11
HT1=SECIP/1000000.
HT2=SECRP/1000000.
HT3=SECP/1000000.
HT8=BSECP(4)/1000000.
HT9=BSECP(5)/1000000.
HT10=BSECP(6)/1000000.
HT11=SECDP/1000000.
IF(PRNTXX.NE.1) WRITE(06,10) HT1, HT2, HT3, HT8, HT9, HT11
IT1=IIMCI/1000000.
IT2=IIMCR/1000000.
IT3=IIMC/1000000.
IT8=BIIMC(4)/1000000.
IT9=BIIMC(5)/1000000.
IT10=BIIMC(6)/1000000.
IT11=IIMCD/1000000.
IF(PRNTXX.NE.1) WRITE(06,11) IT1,IT2,IT3,IT8,IT9,IT11
JT1=IMTRC/1000000.
JT2=RMTRC/1000000.
JT3=MTRC/1000000.
JT11=DMTRC/1000000.
IF(PRNTXX.NE.1) WRITE(06,12) JT1, JT2, JT3, JT11
TEM01=0.
DO 210 NS=1,MXNS
```

```
IF(.NOT.(BPLAT(NS).EQ.1)) GO TO 210
               TEM01=TEM01+BTDC(NS)
210 CONTINUE
          BTDCA=TEMO1
          TEM02=0.
         DO 220 NS=1, MXNS
               IF(.NOT.(BPLAT(NS).EQ.2)) GO TO 220
               TEM02=TEM02+BTDC(NS)
220 CONTINUE
          BTDCG=TEM02
          TEM03=0.
          DO 230 NS=1, MXNS
               IF(.NOT.(BPLAT(NS).E0.3)) GO TO 230
               TEM03=TEM03+BTDC(NS)
230 CONTINUE
          BTDCM=TEM03
          DTDC=STDC-BTDCT
          KT1=STDCI/1000000.
          KT2=STDCR/1000000.
          KT3=STDC/1000000.
          KT8=BTDCA/1000009.
          KT9=BTDCG/1000000.
          KT10=BTDCM/1000000.
         KT11=DTDC/1000000.
          IF(PRNTXX.NE.1) WRITE(06,13) KT1, KT2, KT3, KT8, KT9, KT11
          IF(PRNTXX.NE.1) WRITE(06,14)
          TEMP1=(ISC+SECIC+SECIP+IMTRC+STDCI+IIMCI)/1000000.
         TEMP2=(OLC+AFC+RSC+CNMC+OFMC+SECRC+SECRP+RMTRC+STDCR+IIMCR)/
        + 1000000.
          TEMP3=(OLC+AFC+ISC+RSC+ONMC+OFMC+SECC+SECP+MTRC+STDC+IIMC)/
       + 1000000.
         TEMP8 = (BOLC(4) + BAFC(4) + BISC(4) + BRSC(4) + BONMC(4) + BOFMC(4) + BSECC(4) +
       + BSECP(4)+BIIMC(4)+BTDCA)/1000000.
         TEMP9 = (BOLC(5) + BAFC(5) + BISC(5) + BRSC(5) + BONMC(5) + BOFMC(5) + BSECC(5) +
       + BSECP(5)+BIIMC(5)+BTDCG)/1000000.
          TEM10 = (BOLC(6) + BAFC(6) + BISC(6) + BRSC(6) + BONMC(6) + BOFMC(6) + BSECC(6) + BOFMC(6) + BOFM
       + BSECP(0)+BIIMC(6)+BTDCM)/1000000.
          TEM11=(ISCD+OFMCD+SECDC+SECDP+IIMCD+DMTRC+DTDC)/1000000.
          IF(PRNTXX.NE.1) WRITE(06,15) TEMP1, TEMP2, TEMP3, TEMP8, TEMP9, TEM11
          TEM04=0.
          DO 240 NS=1,MXNS
               IF(.NOT.(BTYPE(NS).EQ.1)) GO TO 240
               TEM04=TEM04+TNB(NS)
240 CONTINUE
          TNIB=TEM04
          TEM05=0.
          DO 250 NS=1, MXNS
```

```
IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 250
      TEM05=TEM05+TNB(NS)
250 CONTINUE
    TNCB=TEM05
    TEM06=0.
    DO 260 NS=1, MXNS
      IF(.NOT.(BTYPE(NS).EQ.3)) GO TO 260
      TEM06=TEM06+TNB(NS)
260 CONTINUE
    TNSB=TEM06
    TEM07=0.
    DO 270 NS=1, MXNS
      IF(.NOT.(BPLAT(NS).EQ.1)) GO TO 270
      TEM07=TEM07+TNB(NS)
270 CONTINUE
    TNAB=TEM07
    TEM08=0.
    DO 280 NS=1,MXNS
      IF(.NOT.(BPLAT(NS).EQ.2)) GO TO 280
      TEM08=TEM08+TNB(NS)
280 CONTINUE
    TNGB=TEM08
    TEM09=0.
    DO 290 NS=1,MXNS
      IF(.NOT.(BPLAT(NS).EQ.3)) GO TO 290
      TEM09=TEM09+TNB(NS)
290 CONTINUE
    TNMB=TEM09
    TEMPA=TNIB+TNCB+TNSB
    TEMPB=TNAB+TNGB+TNMB
    IF (PRNTXX.NE.1) WRITE (06,16) TNIB, TNAB, TNCB, TNGB, TNSB, TEMPB, TEMPA
    RETURN
    END
```

С

SUBROUTINE OTAB4A

```
810625 085716001
Considerate the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standard and the standar
C* ATU MOD LCR - 21 MAY 80
C^{**}
                PRINTS ITEM-SPECIFIC COSTS AND
C* MAINTENANCE CHARACTERISTICS
Constitution of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
C
                           COMMON / PRNTXX/ PRNTXX
                            INTEGER PRNTXX
                            COMMON /FULLXX/ FULLXX
                            INTEGER FULLXX
                            COMMON /FAIL/ FAIL(150,10)
                            COMMON /FPLT/ FPLT(150)
                            COMMON / FPM / FPM (150)
                           COMMON / I / I
                           COMMON / IIMCA/ IIMCA(150)
                           REAL IIMCA
                            COMMON /INO/ INO(150)
                            COMMON /INOUN/ INOUN(150,24)
                            REAL INOUN
                            COMMON / ISCA/ ISCA(150)
                            REAL ISCA
                            COMMON /LRU/ LRU(150)
                            COMMON /MTRCI/ MTRCI(150)
                            REAL MTRCI
                            COMMON /MXI/ MXI
                            COMMON /MXNP/ MXNP
                            COMMON /MXNS/ MXNS
                            COMMON /NITEM/ NITEM(150,5)
                           REAL NITEM
                           COMMON /NP/ NP
                            COMMON /NPLT/ NPLT(5,10)
                            REAL NPLT
                            COMMON /NS/ NS
                            COMMON /OFMCA/ OFMCA(150)
                            COMMON /ONMCA/ ONMCA(150)
                            COMMON /PIUP/ PIUP
                            COMMON /RSCA/ RSCA(150)
                            COMMON /SECI/ SECI(150)
                            COMMON /TDC/ TDC(150)
                            COMMON /TIAC/ TIAC(150)
                            COMMON /TNB/ TNB(10)
                   1 FORMAT(1H1/32X,68HOUTPUT TABLE 4A: ITEM-SPECIFIC MAINTENANCE AND C
                       +OSTS CHARACTERISTICS//46X,40H(COSTS IN THOUSANDS OF CONSTANT DOLLA
                   2 FORMAT(55X,11H(CONTINUED)//)
```

```
3 FORMAT(98X,5HTOTAL,17X,5HTOTAL/29X,3HLRU,22X,3HON-,6X,4HOFF-,22X,3
                                                                   CORR. MAINT., 1X, 7HSUPPORT/2X, 4HITEM, 23X, 5HINDI
             +-,2X,7HINITIAL,2X,5HREPL.,4X,6HEQUIP.,3X,6HEQUIP.,3X,6HMAINT.,4X,5
             +HTECH., 2X, 7HINVENT., 2X, 7HSUPPORT, 2X, 9HCOST/FAIL, 4X, 6HCOST +/2X, 5HI
             +NDEX,2X,9HITEM NAME,11X,5HCATOR,2X,6HSPARES,3X,6HSPARES,3X,6HMAINT
             +.,3X,6HMAINT.,3X,8HTRAINING,2X,6HORDERS,1X,5HMGMT.,4X,4HCOST,5X,11
             + H(RSCA+ONMCA,2X,4HSECI/2X,3H(I),24X,5H(LRU),2X,6H(ISCA),3X,6H(RSCA),2X,4HSECI/2X,3H(I),24X,5H(LRU),2X,6H(ISCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA),3X,6H(RSCA)
             +),3X,7H(ONMCA),2X,7H(OFMCA),2X,7H(MTRCI),3X,5H(TDC),2X,7H(IIMCA),1
             +2X,7H+OFMCA),5X,6H(TIAC)/)
           4 FORMAT(1X,13,3X,20A1,3X,12,2X,8(F8.1,1X),3X,F6.3,3X,F8.1)
           5 FORMAT(3X,22(1H-),9X,8(8(1H-),1X),14X,8(1H-)/3X,22HCOST TOTALS OVE
             +R ITEMS, 9X, 8(F8.1, 1X), 10X, F11.1)
C
С
C
C...
             ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
                IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
С
                TEMP6=0.
                TEMP7=0.
                TEMP8=0.
                TEMP9=0.
               TEMP9A=0.
                TEMP9B=0.
                TEMP10=0.
                TEMP11=0.
                TEMP16=0.
                IPAGE=40
                IFLAG=1
                DO 270 IXXX1=1,MXI
                     I=INO(IXXX1)
                     IF(.NOT.(IPAGE.EQ.40)) GO TO 220
                          WRITE( 7, 1)
                          IPAGE=1
                          IF(.NOT.(IFLAG.NE.1)) GO TO 210
                               WRITE( 7, 2)
      210
                          CONTINUE
                          WRITE( 7, 3)
      220
                     CONTINUE
                     TEMP1=ISCA(I)/1000.
                     TEMP2=RSCA(I)/1000.
                     TEMP3=ONMCA(I)/1000.
                     TEMP4=OFMCA(I)/1000.
                     TEMP4A=MTRCI(I)/1000.
                     TEMP4B=TDC(I)/1000.
                     TEMP5=IIMCA(I)/1000.
                     TIC=TEMP1+TEMP2+TEMP3+TEMP4+TEMP4A+TEMP4B+TEMP5
```

Water and

```
TEM01=0.
      DO 230 NS=1,MXNS
        TEMO1=TEMO1+TNB(NS)*FAIL(I,NS)
230
     CONTINUE
     FPM(I)=TEM01
      FPLT(I)=12.*PIUP*FPM(I)
      CMCF=0.0
      IF(.NOT.(FPLT(I).GE.0,000001)) GO TO 240
        CMCF=(RSCA(I)+ONMCA(I)+OFMCA(I))/1000./FPLT(I)
240
     CONTINUE
     TEM03=0.
      DO 260 NS=1,MXNS
        TEM02=0.
        DO 250 NP=1, MXNP
          TEMO2=TEMO2+NPLT(NP, NS)*NITEM(I, NP)
250
        TEM93=TEM03+TNB(NS)*TEM02
     CONTINUE
260
      STN1=TEM03
      T1AC(I) = T1C + SEC1(I) / 1000.
      WRITE( 7, 4) 1,(INOUN(1,K1),K1≈1,20),LRU(1),TEMP1,TEMP2,TEMP3,
        TEMP4, TEMP4A, TEMP4B, TEMP5, TIC, CMCF, TIAC(I)
      TEMPo=TEMPo+TEMPI
      TEMP7=TEMP7+TEMP2
      TEMP8=TEMP8+TEMP3
      TEMP9=TEMP9+TEMP4
      TEMP9A=TEMP9A+TEMP4A
      TEMP9B=TEMP9B+TEMP4B
      TEMP10=TEMP10+TEMP5
      TEMP11=TEMP11+TIC
      TEMP16=TEMP16+TIAC(I)
      IPAGE=IPAGE+1
      TFLAG=0
270 CONTINUE
    WRITE( 7, 5) TEMP6, TEMP7, TEMP8, TEMP9, TEMP9A, TEMP9B, TEMP10, TEMP11.
   + TEMP16
    RETURN
    END
```

С

SUBROUTINE OTAB4B

C C

```
C
                                                                                                                                                                                                                         810625 085722583
Culturate de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la colocia de la 
C* ATU MOD LCR - 21 MAY 80
C* PRINTS ITEM-SPECIFIC COSTS AND
C* MAINTENANCE CHARACTERISTICS
C the distributed and with the distributed and the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the distributed as the 
                       COMMON /PRNTXX/ PRNTXX
                       INTEGER PRNTXX
                       COMMON /FULLXX/ FULLXX
                       INTEGER FULLXX
                       COMMON /BS/ BS(150)
                       COMMON /DS/ DS(150)
                       COMMON /FAIL/ FAIL(150,10)
                       COMMON /FPLT/ FPLT(150)
                       COMMON /FPM/ FPM(150)
                       COMMON /I/ I
                       COMMON /INO/ INO(150)
                       COMMON /LUP/ LUP(150)
                       REAL LUP
                       COMMON /MXI/ MXI
                       COMMON /MXNP/ MXNP
                       COMMON /MXNS/ MXNS
                       COMMON /NITEM/ NITEM(150,5)
                       REAL NITEM
                       COMMON /NP/ NP
                       COMMON /NPLT/ NPLT(5,10)
                       REAL NPLT
                      COMMON /NS/ NS
                       COMMON /PIUP/ PIUP
                       COMMON /TNB/ TNB(10)
                       COMMON /TOTPQ/ TOTPQ(150)
                1 FORMAT(1H1/37X,71HOUTPUT TABLE 4B: SYSTEM-WIDE ITEM COSTS AND MAIN
                   +TENANCE CHARACTERISTICS/)
                2 FORMAT(58X,11H(CONTINUED)//)
                3 FORMAT(11X,6HSYSTEM,5X,9HTOTAL NO.,3X,9HTOTAL NO.,11X,6HNO. OF,5X,
                   +11HNO. OF LIFE, 17X, 10HPRODUCTION/11X, 6HNO. OF, 5X, 10HOF INIT1AL, 2X,
                   +10HOF INITIAL, 2X, 6HSYSTEM, 2X, 4HITEM, 7X, 11HCYCLE FAILS, 5X, 7HLEARNED
                   +,5X,8HCONTRACT/2X,4HITEM,5X,9HINSTALLED,2X,4HBASE,8X,5HDEPOT,7X,6H
                   +NO. OF,2X,9HFAILS PER,2X,10H(NO RIP OR,6X,4HUNIT,8X,11HPROCUREMENT
                   +/2X,5HINDEX,4X,5HITEMS,6X,6HSPARES,6X,6HSPARES,6X,5HITEMS,3X,6HMON
                   +TH ,5X,12HFALSE PULLS),4X,4HCOST,8X,8HQUANTITY//)
                4 FORMAT(3X, I3, 5X, F7.0, 4X, F5.0, 7X, F5.0, 6X, F7.0, 2X, F7.2, 5X, F7.0, 8X, F6
                   +.0,9X,F7.0
```

```
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
      IPAGE=40
      IFLAG=1
      DO 260 1XXX1=1,MX1
        I=INO(IXXX1)
        IF(.NOT.(IPAGE.EQ.40)) GO TO 220
          WRITE( 7, 1)
          IPAGE=1
          IF(.NOT.(IFLAG.NE.1)) GO TO 210
            WRITE(7, 2)
  210
          CONTINUE
          WRITE(7, 3)
  220
        CONTINUE
        TEMO1=0.
        DO 230 NS=1,MXNS
          TEMO1=TEMO1+TNB(NS)*FAIL(I,MS)
  230
        CONTINUE
        FPM(I)=TEM01
        FPLT(I)=12.*PIUP*FPM(I)
        TEM03=0.
        DO 250 NS=1,MXNS
          TEM02=0.
          DO 240 NP=1,MXNP
            TEM02=TEM02+NPLT(NP,NS)*NITEM(I,NP)
  240
          CONTINUE
          TEM03=TEM03+TNB(NS)*TEM02
  250
        CONTINUE
        STNI=TEM03
        SNOI = STNI + BS(I) + DS(I)
        WRITE( 7, 4) I,STNI,BS(1),DS(1),SNOI,FPM(I),FPLT(I),LUP(I),
          TOTPQ(I)
        IPAGE=IPAGE+1
        IFLAG=C
  260 CONTINUE
C
      RETURN
      END
```

SUBROUTINE OTAB4C

```
810625 085724799
PRINTS ITEM-SPECIFIC COSTS AND
C* MAINTENANCE CHARACTERISTICS
C
     COMMON /PRNTXX/ PRNTXX
     INTEGER PRNTXX
     COMMON /FULLXX/ FULLXX
     INTEGER FULLXX
     COMMON /FPLT/ FPLT(150)
     COMMON /FPM/ FPM(150)
     COMMON /1/ I
     COMMON /INO/ INO(150)
     COMMON /LRU/ LRU(150)
     COMMON /MXI/ MXI
     COMMON /OFMCA/ OFMCA(150)
     COMMON /ONMCA/ ONMCA(150)
     COMMON /RSCA/ RSCA(150)
   1 FORMAT(1H1/32X,56HOUTPUT TABLE 4C: SYSTEM-WIDE MAINTENANCE CHARACT
    +ERISTICS///)
   2 FORMAT(23X,35HAVERAGE CORRECTIVE MAINTENANCE COST,10X,30HTOTAL NUM
    +BERS OF LRU FAILURES:/26X,20HPER FAILURE ($K) FOR//28X,4HLRUS,8X,4
    +HSRUS, 27X, 7HMONTHLY, 3X, 8HLIFETIME//26X, F6.3, 6X, F6.3, 27X, F7.0, 2X, F9
C
С
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
     IF (PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
С
     WRITE( 7, 1)
     TEM01=0.
     DO 210 IXXX1=1,MXI
       I = INO(IXXXI)
       IF(.NOT.(LRU(I).EQ.1)) GO TO 210
       TEMO1=TEMO1+FPM(I)
 210 CONTINUE
     TEMP14=TEM01
     TEM02=0.
     DO 220 IXXX1=1,MXI
       I = INO(IXXX1)
       IF(.NOT.(LRU(I).EQ.1)) GO TO 220
       TEM02=TEM02+FPLT(I)
 220 CONTINUE
     TEMP15=TEM02
```

```
TEM03=0.
      DO 230 IXXX1=1,MXI
        I=INO(IXXXI)
        IF(.NOT.(LRU(I).EQ.1)) GO TO 230
        TEM03=TEM03+RSCA(1)+ONMCA(1)+OFMCA(1)
  230 CONTINUE
      TEMP12=TEM03
      TEM04=0.
      DO 240 IXXX1=1,MXI
        I=1NO(IXXXI)
        IF(.NOT.(LRU(I).EQ.1)) GO TO 240
        TEM04=TEM04+FPLT(I)
  240 CONTINUE
      TEMP12=TEMP12/(1000.#TEM04)
      TEMP13=0
      TEM05=0.
      DO 250 \text{ IXXX} 1=1, \text{MXI}
        I=INO(IXXXI)
        IF(.NOT.(LRU(I).EQ.0)) GO TO 250
        TEMO5=TEMO5+FPLT(I)
  250 CONTINUE
      TEMP11=TEM05
      IF(.NOT.(TEMP11.GE.0.000001)) GO TO 270
        TEM06=0.
        DO 260 IXXX1=1,MXI
          I = INO(IXXXI)
          IF(.NOT.(LRU(I).EQ.0)) GO TO 260
          TEMO6=TEMO6+RSCA(I)+ONMCA(I)+OFMCA(I)
  260
        CONTINUE
        TEMP13=TEM06/(1000*TEMP11)
  270 CONTINUE
      WRITE( 7, 2 TEMP12, TEMP13, TEMP14, TEMP15
C
      RETURN
      END
```

SUBROUTINE OTAB5

```
С
                                                                                                                                                                                                                 810625 085726644
Calculation to the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the
C* ATU MOD LCR - 21 MAY 80
C* PRINTS SUPPORT EQUIPMENT REQUIREMENTS AND COSTS
Constitution to the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of the text of th
С
                      COMMON / PRNTXX/ PRNTXX
                       INTEGER PRNTXX
                      COMMON /FULLXX/ FULLXX
                       INTEGER FULLXX
                       COMMON /BPLAT/ BFLAT(10)
                       INTEGER BPLAT
                      COMMON /BTYPE/ BTYPE(10)
                       INTEGER BTYPE
                       COMMON /CSE/ CSE(120)
                       COMMON /L/ L
                       COMMON /MSE/ MSE(120)
                       REAL MSE
                       COMMON /MXL/ MXL
                       COMMON /MXNS/ MXNS
                       COMMON /NS/ NS
                      COMMON /NSEB/ NSEB(120,10)
                      REAL NSEB
                      COMMON /NSED/ NSED(120)
                      REAL NSED
                      COMMON /PIUP/ PIUP
                      COMMON /SEDV/ SEDV(120)
                      COMMON /SEINO/ SEINO(120)
                       INTEGER SEINO
                      COMMON /SENOUN/ SENOUN(120,20)
                      COMMON /SETDC/ SETDC(120)
                      COMMON /TNB/ TNB(10)
                      COMMON /TUCTDC/ TUCTDC
                1 FORMAT(1H1,27X,56HOUTPUT TABLE 5: SUPPORT EQUIPMENT REQUIREMENTS A
                   +ND COSTS/43X,18H(COSTS IN DOLLARS)///30X,93H* SUPPORT EQUIPMENT UN
                   +ITS REQUIRED AT: * SYSTEM * UNIT * TECH. * SE
                                                                                                                                                                                                                    * SYSTEM
                                     */30X,1H*,38(1H-),54H* TOTAL
                                                                                                                                                             * LIFE - * ORDER * DEVMT * LIF
                   +E-
                                                                   */3X,2HSE,25X,93H* INDEP CIMF * AIR GROUND * THE
                   + * REQUIRED * TIME * COST * COST * TIME
                                                                                                                                                                                                                                   */2X,5HINDE
                   +X,2X,20HSUPPORT EQUIP. NAME ,1X,93H* BASES BASES * BASES BASES *
                                                                                                                                                                                      * COST ($K)
                                                                                                                                                                                                                                                         */3X,
                   +DEPOT * UNITS
                                                                                        * COST *
                                                                                                                                                                                                                       * (1)
                   +3H(L),24X,93H*
                                      * (3) * (4) * (1)*(2)+(3)+(4)*///
                   +(2)
               2 FORMAT(2X, I3, 3X, 20A1, 2X, F6.0, 1X, F6.0, 1X, F6.0, 1X, F6.0, 2X, F6.1, 5X, F7
                  +.0,2X,F8.0,1X,F8.0,1X,F8.0,4X,F10.0)
               3 FORMAT(///95X, 11HSUBTOTAL = ,4X,F10.0)
```

```
4 FORMAT( - 74X, 32HUCT SOFTWARE DEVELOPMENT COST = ,4X,F10.0)
    5 FORMAT(109X,14(1H-)/)
    6 FORMAT(75X, 31HTOTAL SUPPORT EQUIPMENT COST = ,1X,F13.0)
C
C
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
      T10=0.
      WRITE( 7, 1)
      DO 200 IXXXI=1,MXL
        L=SEIND(IXXXI)
        TEM((1=0))
        DO 216 NS=1,MXNS
          IF (.NOT. (FTYPE (NS), EQ.1)) GO TO 210
          TEMO1=TEMO1+TNB(NS)*NSEB(L,NS)
  210
        CONTINUE
        TI=TEMOI
        TEM02=0
        DO 220 NS=1,MXNS
          IF(.NOT.(BTYPE(NS).EQ.2)) GO TO 220
          TEMP2=TEM02+TNB(NS)*NSEB(L,NS)
  220
        CONTINUE
        T2=TEM02
        TEM03=0.
        DO 230 NS≈1,MXNS
          IF(.NOT.(BPLAT(NS).EQ.1)) GO TO 230
          TEMOS=TEMOS+TNB(NS)*NSEB(L,NS)
        CONTINUE
  230
        T3=TEM03
        TEM04=0.
        Do _{-40} NS=1,MXNS
          IF(.NOT.(PPLAT(NS).EQ.2)) GO TO 240
          TEMO4=TEMO4+TNB(NS)*NSEB(L,NS)
  240
        CONTINUE
        T4=TEM04
        TEM05=0.
        DO 250 NS=1,MXNS
          IF. NOT. (BPLAT(NS).EQ.3)) GO TO 250
          TEMO5=TEMO5+TNB(NS)*NSEB(L,NS)
  250
        CONTINUE
        T5=TEM05
        The NSED(L)
        T7=T1+T2+T6
        T8=CSE(L)*(1.+PIUP*MSE(L))
        TSA=SETDC(L)
```

```
T8B=SEDV(L)
T9=(T7*T8+T8A+T8B)/1000.
T10=T10+T9
T11=T10+TUCTDC/1000.
WRITE( 7, 2) L,(SENOUN(L,K1),K1=1,20),T1,T2,T3,T4,T6,T7,T8,T8A,
+ T8B,T9
260 CONTINUE
WRITE( 7, 3) T10
T12=TUCTDC/1000.
WRITE( 7, 4) T12
WRITE( 7, 5)
WRITE( 7, 6) T11
C
RETURN
END
```

```
SUBRIGITINE STARE
\mathbf{C}
                                                                                                                                                   810625 085729454
C# ATE MIN DUR - . 1 MW 80
C# PRINTS FLATFORM TERMINAL FAILURE RATE
Consisting the state of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the cont
C
               COMMANDA VENTEXA PRIVINX
                INTEGER PRODUC
                COMMON F LINX FILLIAN
INTEGRA II LINXX
                COMMON AFTER AFTERSION
                COMMON
                COMMON IN INCIDENT OF COMMON REAL REAL REAL OF
                \mathbb{R}(|AL|^2\omega^*A)
                COMMON LAST LAST (1993)
                COMMON MURTH MORMICISO,40
                REAL MORMA
                COMMON LANT MATE MATE
                COMMON PARKE MEND
                COMMON MANS MANS
                COMMON - NITEM NITEM, 150,50
                REAL NITER
                 South March Miles
                 COMMAN SPLIT SPLIT(5,10)
                 REAL NELT
                 COMMON NS NS
                 COMMON NURSER NURSELS I
                 REAL NURSE
                 COMMON FINAN FROUN(5,12)
                 dOMMON TERMO TERMO(5)
                 COMMON THAC THACLS)
                COMMON PINB TINBEROLE
                COMMON - XFR / XFR
            1 FORMATCHHI, LEM, SIHOUTPUT TABLE 6: PLATFORM/TERMINAL FAILURE RATE D
                                                  FAILS*/ FAILS*/ FAILS*/
              +ATA
                                                                                                                        NO. OF TERM. MONTH M
                                                /88H PLAT-
              +FAILS#.
                                     Mal.HRS MIL.HRS
                                                                                          PROD. COST/86H FORM
              +0NTH
              +PLAT- PER PER PER
                                                                                                                                                             PER PLAT /8
                                                                                                                              PER
                                                                                                        PER
              +TH INDEX PLATFORM NAME FORMS PLAT
                                                                                                                                                       TERM. PLAT
                                                                                                                               PLAT
                                                                                                                                                                            (NTRMP)
              + TERMINAL TYPE (SK) /38H (NP)
            2 FORMAT(3X,12,4X,12A1,3X,F6.0,2X,F5.2,3X,F6.3,2X,F6.3,2X,F7.0,2X,F7
```

+.1,5X,F8.01

```
3 FORMAT(////4X,65H* THESE FAILURES INCLUDE EVERY EVENT REQUIRING MA
     +INTENANCE ACTION/6X,65H(INCLUDING REPAIR-IN-PLACE). THEY DO NOT I
     +NCLUDE FALSE PULLS.
                           )
С
С
C
C....ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
      WRITE( 7, 1)
      DO 250 NP=1,MXNP
        TEM01=0.
        DO 210 NS=1,MXNS
          TEMO1=TEMO1+TNB(NS)*NPLT(NP,NS)
  210
        CONTINUE
        TPLT=TEM01
        PFPM=0.
        TEM02=0.
        DO 220 IXXX2=1,MXI
          I=INO(IXXX2)
          IF(.NOT.(LRU(I).EQ.1.AND.NITEM(I,NP).GT..000001)) GO TO 220
          TEM02=TEM02+NITEM(I,NP)/MTBMI(I,LE(NP))
  220
        CONTINUE
        TEM03=0.
        DO 230 NS=1, MXNS
          TEM03=TEM03+NPLT(NP,NS)*TNB(NS)*APFH(NP,LO(NS))
  230
        CONTINUE
        PFPM=TEM02*TEM03*TFAC(NP)*KFAC(LE(NP))*XFR/TPLT
        TFPM=PFPM/NTRMP(NP)
        PFPMH=0.
        TEM04=0.
        DO 240 IXXX2=1,MXI
          I=INO(1XXX2)
          IF(.NOT.(LRU(I).EQ.1.AND.NITEM(I,NP).GT..000001)) GO TO 240
          TEM04=TEM04+NITEM(I,NP)/MTBMI(I,LE(NP))
  240
        CONTINUE
        PFPMH=TEMO4*TFAC(NP)*KFAC(LE(NP))*1000000.*XFR
        TFPMH=PFPMH/NTRMP(NP)
        T1=TERMC(NP)/1000.
        WRITE( 7, 2) NP, (PNOUN(NP, K1), K1=1, 12), TPLT, NTRMP(NP), PFPM, TFPM,
          PFPMH, TFPMH, T1
  250 CONTINUE
      WRITE( 7, 3)
C
      RETURN
      END
```

SUBROUTINE OTAB7

```
С
                                                                                                                                                                                                                                                                                                        810625 085732060
Citation to the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of the description of t
C* BASELINE CHANGES
                  PRINTS MANPOWER REQUIREMENTS
Considerate describe the considerate described and the described and the considerate described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the described and the
С
                               COMMON / PRNTXX/ PRNTXX
                                INTEGER PRNTXX
                               COMMON /FULLXX/ FULLXX
                                INTEGER FULLXX
                               COMMON /ABMHYD/ ABMHYD(10)
                               COMMON / ABMHYM/ ABMHYM(10)
                               COMMON /ABMP/ ABMP(10)
                                COMMON /ADMP/ ADMP
                               COMMON /BCMH/ BCMH(150)
                               COMMON /BMF/ BMF
                               COMMON /BMH/ BMH(150)
                               COMMON /COND/ COND(150)
                               COMMON /DMF/ DMF
                                COMMON / DMH/ DMH(150)
                                COMMON /FAIL/ FAIL(150,10)
                               COMMON /FPR/ FPR(150)
                               COMMON /HPD1/ HPD1
                                 INTEGER HPD1
                               COMMON /HPD2/ HPD2
                                 INTEGER HPD2
                               COMMON /I/ I
                                COMMON / INO/ INO(150)
                               COMMON /LRU/ LRU(150)
                               COMMON /MRF/ MRF
                                REAL MRF
                               COMMON / MRO/ MRO
                               REAL MRO
                                COMMON /MXI/ MXI
                                COMMON /MXNS/ MXNS
                                 COMMON /NHI/ NHI(150)
                                COMMON /NRTS/ NRTS(150)
                                REAL NRTS
                                 COMMON /NS/ NS
                                 COMMON /QTYP1/ QTYP1
                                 INTEGER QTYP1
                                COMMON /QTYP2B/ QTYP2B
                                  INTEGER QTYP2B
                                 COMMON /QTYP2D/ QTYP2D
                                  INTEGER QTYP2D
```

COMMON /RIP/ RIP(150)

```
COMMON /RTS/ RTS(150)
      COMMON /SAMHY/ SAMHY
      COMMON /SAMP/ SAMP
      COMMON /SR/ SR
      COMMON /TABMHY/ TABMHY(10)
      COMMON /TABMP/ TABMP(10)
      COMMON /TIME1/ TIME1(150)
      INTEGER TIME1
      COMMON /TMPYT1/ TMPYT1
      COMMON /TMPYT2/ TMPYT2
      COMMON /TNB/ TNB(10)
      COMMON /TORB/ TORB
      COMMON /TORD/ TORD
      COMMON /TR/ TR
      COMMON /T2BA/ T2BA
      COMMON /T2DA/ T2DA
      COMMON /XFPR/ XFPR
      REAL NHNRT
      REAL NHRT
    1 FORMAT(1H1,22X,38HOUTPUT TABLE 7: MANPOWER REQUIREMENTS///2X,4HBA
     +SE,5X,12HMANHOURS PER,10X,14HTOTAL MANYEARS,6X,14HTOTAL MANHOURS,6
    +X,14HTOTAL MANYEARS/2X,4HTYPE,5X,13HYEAR PER BASE,7X,17HPER YEAR P
    +ER BASE, 3X, 18HPER YEAR/BASE TYPE, 2X, 18HPER YEAR/BASE TYPE/2X, 4H(NS
     +)/9X,20HMAINT.
                        MGMT. DATA//)
    2 FORMAT(3X,12,4X,F6.0,4X,F6.0,11X,F4.1,15X,F8.0,13X,F6.1)
    3 FORMAT(/2X,4HBASE/2X,5HTOTAL,4X,3H- -,8X,3H- -,12X,3H- -,15X,F8.0,
    +13X, F6.1
    4 FORMAT(/2X,5HDEPOT/2X,5HTOTAL,4X,3H- -,8X,3H- -,12X,3H- -,15X,F8.0
    +,13X,F6.1/)
    5 FORMAT(2X,5HTOTAL,48X,F8.0,13X,F6.1 ///)
    6 FORMAT(31X,23HTOTAL MANYEARS PER YEAR/35X,23H
                                                        IN TRAINING
                                    ,8X,F6.1//9X,20HEACH SUBSEQUENT YEAR
     + //9X,20HFIRST YEAR
     +,8X,F6.1)
С
C
C
     ONLY PRINT THIS TABLE IF FULL OFF-LINE OUTPUT WAS REQUESTED
      IF(PRNTXX.EQ.O.OR.FULLXX.EQ.O) RETURN
C
      TEMO1=0.
      DO 210 IXXX1=1,MXI
        I=INO(IXXX1)
        TEMO1=TEMO1+TIME1(I)
  210 CONTINUE
      T1=TEM01
      ABMHY=0.
      ABMPY=0.
```

```
ADMHY=0.
    WRITE( 7, 1)
    DO 250 NS=1, MXNS
      SUM1=0.
      SUM2=0.
      SUM3=0.
      DO 24( IXXX2=1,MXI
        1 = 1 \times 0 (1 \times 1 \times 1 \times 2)
        NHRT=0.
        NHNRT=0.
        IF(.NOT.(LRU(1).EQ.0)) GO TO 220
          NHRT=RTS(NHI(I))
          NHNRT=NRTS(NHI(I))
220
        CONTINUE
        ABMHFM=(\Gamma L)\Delta T(LRU(1))+NHRT)*(((1.+FPR(1)*NFPR)*BCMH(1)+RTS(1)*
          BMH(I)) \(\phi\)BMF()
        ADMHF = ((FLOAT(LRU(I))) + NHRT) + NHRT(I) + NHRT*(I, -COND(I))) + DMH(I)
          \Rightarrow DMF
        SUM1=SUM1+ABMHFM=FAIL(I,NS)
        SUM2=SUM2+ADMHF*FAIL(I,NS)*TNB(NS)
        T2=1.0
        IF(.NOT.(RIP(I).LT.0.999)) GO TO 230
          T2=RIP(I)/(I.0-RIP(I))
230
        CONTINUE
        SUM3=SUM3+(T2*MRO+MRF+SR+TR)*FAIL(I,NS)
240
      CONTINUE
      ABMHYM(NS)=12.*SUM1
      ABMHYD(NS)=12.#SUM3
      ABMP(NS) = (ABMHYM(NS) + ABMHYD(NS))/1728.
      TABMHY (NS) = (ABMHYM(NS) + ABMHYD(NS)) *TNB(NS)
      TABMP(NS)=TABMHY(NS)/1728.
      ABMPY=ABMPY+TABMP(NS)
      ABMHY=ABMHY+TABMHY(NS)
      ADMHY=ADMHY+12. ↑SUM2
      WRITE(7, 2) NS, ABMHYM(NS), ABMHYD(NS), ABMP(NS), TABMHY(NS),
        TABMP(NS)
250 CONTINUE
    ADMP=ADMHY/1728.
    SAMHY=ABMHY+ADMHY
    SAMP=ABMPY+ADMP
    TMPYT1=FLOAT(QTYP2D)*AINT(T2DA/FLOAT(HPD2)+.5)/216.+FLOAT(QTYP2B)*
   + AINT(T2BA/FLOAT(HPD2)+.5)/216.
    IF(,NOT,(HPD1,GT,0,0001)) GO TO 260
      TMPYT1=TMPYT1+FLOAT(QTYP1)#AINT(T1/FLOAT(HPD1)+.5)/216.
260 CONTINUE
    TMPYT2=FLOAT(QTYP2D)*TORD*AINT(T2DA/FLOAT(HPD2)+.5)/216.+
   + FLOAT(QTYP2B)*TORB*AINT(T2BA/FLOAT(HPD2)+.5)/216.
```

WRITE(7, 3) ABMHY,ABMPY WRITE(7, 4) ADMHY,ADMP WRITE(7, 5) SAMHY,SAMP WRITE(7, 6) TMPYT1,TMPYT2

RETURN END

С

Catalaga ratio properties and a second contraction of the contraction C* PRINTS TIAD TO A FILE OF LATER USE IN RLA

SUBROUTINE RLAPRT

END

C

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Considerate destablishment of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of th
C
                            COMMON / PRNTXX/ PRNTXX
                             INTEGER PRNTXX
                            COMMON /FULLXX/ FULLXX
                             INTEGER FULLXX
                            COMMON / DUM/ DUM
                             INTEGER DUM
                            COMMON /1/ I
                            COMMON /INO/ ING(150)
                            COMMON /MXI/ MXI
                            COMMON /TIAC/ TIAC(150)
                             INTEGER FINISH
                             INTEGER START
                    1 FORMAT(I3)
                   2 FORMAT(6(I3,1X,F8.1,1X))
                   3 FORMAT(1H$)
С
С
С
С
                            WRITE(23, 1) MXI
                            DO 220 DUM=1,MXI,6
                                      START=DUM
                                      FINISH=DUM+5
                                      IF(.NOT.(FINISH.GT.MXI)) GO TO 210
                                               FINISH=MXI
          210
                                      CONTINUE
                                      WRITE(23, 2) (INO(1), TIAC(INO(1)), I=START, FINISH)
          220 CONTINUE
                            WRITE(23, 3)
С
                             RETURN
```

810625 085737649

SUBROUTINE OSENS

```
810625 085739747
Construction of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of th
C* PRINTS THE RESULTS OF THE SENSITIVITY ANALYSIS ON THE
C* OFF-LINE PRINTER AND/OR AT THE TERMINAL.
               IF PRNTXX=1 OR 2, OUTPUT GOES TO THE PRINTER.
               IF PRNTXX=0 OR 2, OUTPUT GOES TO THE TERMINAL.
Cut that the first the first that the first the first that the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the fir
                          DIMENSION XXTEM1( 150), XXTEM2( 150)
                          COMMON /PRNTXX/ PRNTXX
                          INTEGER PRNTXX
                          COMMON /COND/ COND(150)
                          COMMON /CPIUP/ CPIUP
                          COMMON /FINC/ FINC
                          COMMON /FPR/ FPR(150)
                          COMMON /I/ I
                          COMMON /IDCOND/ IDCOND(150)
                          COMMON /IDFPR/ IDFPR(150)
                          COMMON /IDFR/ IDFR(150)
                          COMMON /IDNRTS/ IDNRTS(150)
                          COMMON / IDRM/ IDRM(150)
                          COMMON /IDRTS/ IDRTS(150)
                          COMMON /IDSRU/ IDSRU(150)
                          COMMON /IDUP/ IDUP(150)
                          COMMON /INO/ INO(150)
                          COMMON /LDCOND/ LDCOND
                          COMMON /LDERV/ LDERV
                          COMMON /LDFPR/ LDFPR
                          COMMON /LDFR/ LDFR
                          COMMON /LDNRTS/ LDNRTS
                          COMMON /LDRM/ LDRM
                          COMMON /LDRTS/ LDRTS
                          COMMON /LDSRU/ LDSRU
                          COMMON /LDUP/ LDUP
                          COMMON /LRU/ LRU(150)
                          COMMON /NRTS/ NRTS(150)
                          REAL NRTS
                          COMMON /RM/ RM(150)
                          COMMON /RTS/ RTS(150)
                          COMMON /TDCOND/ TDCOND(150)
                          COMMON /TDFPR/ TDFPR(150)
                          COMMON /TDFR/ TDFR(150)
                          COMMON /TDMF/ TDMF
                          COMMON /TDNRTS/ TDNRTS(150)
                          COMMON /TDPIUP/ TDPIUP
```

COMMON /TDRM/ TDRM(150)

```
COMMON /TDRTS/ TDRTS(150)
     COMMON /TDSRU/ TDSRU(150)
     COMMON /TDUP/ TDUP(150)
     COMMON /TDXFPR/ TDXFPR
      COMMON /TDXFR/ TDXFR
     COMMON /TOXMIL: TOXMIL
     COMMON /TDXRM/ TDXRM
     COMMON /TDXUC/ TDXUC
     COMMON /TFR/ TFR(150)
     COMMON (TP) UP(150)
C
    1 FORMAT(1H1/25X,30HLCC SENSITIVITY ANALYSIS TABLE/)
    2 FORMAT(30H CHANGE IN LCC (SM) ,12F7.3)
    3 FORMAT(1X,41H CHANGE IN LCC ($M) DUE TO AN INCREASE OF,F5.1,25H %
    +IN:
                  GLOBAL UNIT COST (XUC FACTOR) -
    4 FORMAT(+6H
                 GLOBAL FAILURE RATE (XFR FACTOR) -
    5 FORMAT (46H
                                                            F12.3
    6 FORMAT(46H GLOBAL FALSE PULL RATE (XFPR FACTOR) -
                                                            ,F12.3)
    7 FORMAT(46H MAINTENANCE REPAIR TIMES (BMF/DMF FACTOR) -,F12.3)
    8 FORMAT(46H REPAIR MATERIALS COST (XRM FACTOR) -
                                                        ,F12.3)
                                                            ,F12.3)
   9 FORMAT(46H MOD/1 LAFOR HOURS (XMIL FACTOR) -
   10 FORMAT(1X/41H CHANGE IN LCC (SM) DUE TO AN INCREASE OF,F5.1,25H YE
    +ARS IN:
   11 FORMAT(46H SYSTEM LIFETIME (PIUP FACTOR) -
                                                             ,F12.3)
   12 FORMAT(1X/714 ITEM FAILURE RATE (ORDERED BY SIGNIFICANCE)
                  ITEM INDEX
   13 FORMATC/30H
                                             ,3X,12(14,3X))
   14 FORMAT(30H CHANGE IN FR (PPM)
                                             ,12F7.0)
   15 FORMAT(1X/71H ITEM UNIT COST (ORDERED BY SIGNIFICANCE)
   16 FORMAT (130H TEM INDEX
                                             ,3X,12(14,3X))
   17 FORMAT(30H CHANGE IN UP
   18 FORMAT(1X/71E TTEM FALSE PULL RATE (ORDERED BY SIGNIFICANCE)
                   TEM INDEX
   19 FORMAT(/30H
                                             (1X, 12(14, 3X))
   20 FORMAT (30H CHANGE IN FPR
                                             .12F7.3)
   21 FORMAT (1X/71H TEM REPAIR MATERIALS COST (ORDERED BY SIGNIFICANCE)
                  ITEM INDEX
   22 FORMAT(/30H
                                              ,3X,12(14,3X))
   23 FORMAT(30H CHANGE IN RM (COST)
                                             ,12F7.0)
   24 FORMAT(1X/71H ITEM INTERMEDIATE REPAIR FRACTION (ORDERED BY SIGNIF
    +ICANCE)
                   ITEM INDEX
   25 FORMAT(/30H
                                              ,1X,12(14,3X))
   26 FORMAT(30H CHANGE IN RTS
                                             ,12F7.2)
   27 FORMAT(1X/71H ITEM DEPOT REPAIR FRACTION (ORDERED BY SIGNIFICANCE)
                       )
                   ITEM INDEX
   28 FORMAT(/30H
                                              1X,12(14,3X)
```

```
29 FORMAT (30H CHANGE IN NRTS
                                                                                                             ,12F7.2)
       30 FORMAT(1X/71H ITEM CONDEMNATION RATE (ORDERED BY SIGNIFICANCE)
                                                        )
       31 FORMAT(/30H
                                             ITEM INDEX
                                                                                                              ,1X,12(14,3X))
       32 FORMAT(30H CHANGE IN COND
                                                                                                            ,12F7.2)
       33 FORMAT(1X/71H LCC SENSITIVITY ON WHICH SRUS SHOULD BE LRU
                                                        )
       34 FORMAT(/30H
                                              ITEM INDEX
                                                                                                             ,3X,12(14,3X))
       35 FORMAT (30H CHANGE IN SRU
                                                                                                            ,12F7.0)
С
С
              IF(PRNTXX.NE.1)WRITE(6,1)
              IF(PRNTXX.NE.O)WRITE(7,1)
              TEMXXX=FINC*100.
              IF(PRNTXX.NE.1)WRITE(6, 3) TEMXXX
              IF(PRNTXX.NE.0)WRITE(7, 3) TEMXXX
              IF(PRNTXX.NE.1)WRITE(6, 4) TDXUC
              IF(PRNTXX.NE.O)WRITE(7, 4) TDXUC
              IF(PRNTXX.NE.1)WRITE(6, 5) TDXFR
              IF(PRNTXX.NE.O)WRITE(7, 5) TDXFR
              IF(PRNTXX.NE.1)WRITE(6, 6) TDXFPR
              IF(PRNTXX.NE.O)WRITE(7, 6) TDXFPR
              IF(PRNTXX.NE.1)WRITE(6, 7) TDMF
              IF(PRNTXX.NE.O)WRITE(7, 7) TDMF
              IF(PRNTXX.NE.1)WRITE(6, 8) TDXRM
              IF(PRNTXX.NE.O)WRITE(7, 8) TDXRM
              IF(PRNTXX.NE.1)WRITE(6, 9) TDXMIL
              IF(PRNTXX.NE.O)WRITE(7, 9) TDXMIL
              TEMXXX=CPIUP
              IF(PRNTXX.NE.1)WRITE(6,10) TEMXXX
              IF(PRNTXX.NE.O)WRITE(7,10) TEMXXX
              IF (PRNTXX.NE.1) WRITE (6,11) TDPIUP
              IF(PRNTXX.NE.O)WRITE(7,11) TDPIUP
C* SECTION 1: ITEM FAILURE RATE (ORDERED BY SIGNIFICANCE)
Constitution production and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
              IF(LDFR .EQ.O.AND.LDERV .EQ.O) GO TO 305
              IXXX=MAXO(LDERV ,LDFR )
              DO 301 JXXX=1,IXXX
                   XXTEM1(JXXX)=FINC *TFR(IDFR (JXXX))
                   XXTEM2(JXXX)=TDFR (IDFR (JXXX))
     301 CONTINUE
C
C....PRINT OUT DERIVATIVES AT TERMINAL SIX AT A TIME.
```

```
IF(LDFR .EQ.O.OR.PRNTXX.EQ.1) GO TO 303
     WRITE(6, 12)
     DO 302 JXXX=1,LDFR ,6
       MMH1=MINO(LDFR ,JXXX+5)
       WRITE(6, 13) (IDFR (KXXX), KXXX=JXXX, MMHI)
       WRITE(6, 14) (XXTEMI(KXXX), KXXX=JXXX, MMHI)
       WRITE(6,2) (XXTEM2(KXXX),KXXX=JXXX,MMHI)
  302 CONTINUE
C.... PRINT OUT DERIVATIVES ON OFF-LINE PRINTER 12 AT A TIME.
  303 IF(PRNTXX.EQ.0) GO TO 305
     WRITE(7, 12)
     DO 304 JXXX=1,IXXX,12
       MMH!=MINO(IXXX,JXXX+11)
       WRITE(7, 13) (IDFR (KXXX), KXXX=JXXX, MMHI)
       WRITE(7, 14) (XXTEM)(KXXX), KXXX=JXXX, MMHI)
       WRITE(7,2) (XXTEM2(KXXX), KXXX=JXXX, MMHI)
  304 CONTINUE
  305 CONTINUE
C
C* SECTION 2: TEM UNIT COST (ORDERED BY SIGNIFICANCE)
\mathbb{C}
     IF(LDUP .EQ.O.AND.LDERV .EQ.O) GO TO 310
     IXXX=MAXO(LDERV ,LDUP )
     DO 306 JXXX=1,1XXX
       XXTEM1(JXXX)=FINC *UP(1DUP (JXXX))
       XXTEM2(JXXX)=TDUP (HDUP (JXXX))
  306 CONTINUE
\mathbf{C}
C....PRINT OUT DERIVATIVES AT TERMINAL SIX AT A TIME.
     IF (LDCP .EQ. (). ()R. PRNTXX.EQ. (1) GO TO 308
     WRITE(6, 15)
     DC = 307 \text{ JXXX} = 1 \text{ LDUP} , 6
       MMHI=MINO(LDUP ,JXXX+5)
       WRITE(6, 16) (IDCP (KXXX), KXXX=JXXX, MMHI)
       WRITE(6, 17) (XXTEMI(KXXX), KXXX=JXXX, MMHI)
       WRITE(6,2) \in XXTEM2(KXXX), KXXX=JXXX,MMHI)
  307 CONTINUE
C.....PRINT OUT DERIVATIVES ON OFF-LINE PRINTER 12 AT A TIME.
  308 IF(PRNTXX.EQ.0) GO TO 310
     WRITE(7, 15)
     DO 309 JXXX=1,IXXX,12
       (II+XXXL, XXXI) ONIM≈1HPP
       WRITE(7, 16) (IDUP (KXXX), KXXX≃JXXX, MMHI)
```

```
WRITE(7, 17) (XXTEM1(KXXX), KXXX=JXXX, MMHI)
                 WRITE(7,2) (XXTEM2(KXXX), KXXX=JXXX, MMHI)
    309 CONTINUE
    310 CONTINUE
C
C* SECTION 3: ITEM FALSE PULL RATE (ORDERED BY SIGNIFICANCE)
Color and a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a first a fi
             IF(LDFPR .EQ.O.AND.LDERV .EQ.O) GO TO 315
             IXXX=MAXO(LDERV ,LDFPR )
             DO 311 JXXX=1,IXXX
                 XXTEM1(JXXX) = FINC *FPR(IDFPR(JXXX))
                 XXTEM2(JXXX)=TDFPR (IDFPR (JXXX))
    311 CONTINUE
С
C.....PRINT OUT DERIVATIVES AT TERMINAL SIX AT A TIME.
             IF(LDFPR .EQ.O.OR.PRNTXX.EQ.1) GO TO 313
             WRITE(6, 18)
             DO 312 JXXX=1,LDFPR ,6
                 MMHI=MINO(LDFPR ,JXXX+5)
                 WRITE(6, 19) (IDFPR (KXXX), KXXX=JXXX, MMHI)
                 WRITE(6, 20) (XXTEM1(KXXX), KXXX=JXXX, MMHI)
                 WRITE(6,2) (XXTEM2(KXXX),KXXX=JXXX,MMHI)
    312 CONTINUE
C
C.... PRINT OUT DERIVATIVES ON OFF-LINE PRINTER 12 AT A TIME.
     313 IF(PRNTXX.EQ.0) GO TO 315
             WRITE(7, 18)
             DO 314 JXXX=1,IXXX.12
                 MMHI=MINO(IXXX,JXXX+11)
                 WRITE(7, 19) (IDFPR (KXXX), KXXX=JXXX, MMHI)
                 WRITE(7, 20) (XXTEM1(KXXX), KXXX=JXXX, MMHI)
                 WRITE(7,2) (XXTEM2(KXXX), KXXX=JXXX, MMHI)
    314 CONTINUE
    315 CONTINUE
C* SECTION 4: ITEM REPAIR MATERIALS COST (ORDERED BY SIGNIFICANC
С
             IF(LDRM .EQ.O.AND.LDERV .EQ.O) GO TO 320
             IXXX=MAXO(LDERV ,LDRM
             DO 316 JXXX=1,IXXX
                 XXTEM1(JXXX)=FINC *RM(IDRM (JXXX))*UP(IDRM (JXXX))
                 XXTEM2(JXXX)=TDRM (IDRM (JXXX))
    316 CONTINUE
```

```
C.....PRINT OUT DUR VATIVES AT TERMINAL SIX AT A TIME.
              IF(LDRM | LEQ.C.OR.FRNTXX,EQ.1) GO TO 318 WRITE(6, 21)
              DO 317 JXXX=1,1DRM ,6
                   MMH!=MING.LDRM ,JXXX+5)
                   WRITE(6, 22) CIDRM (KXXX), KXXX=JXXX, MMHI)
                   WRITE(6, 23 * (XXTEMI(KXXX), KXXX=JXXX, MMHI)
                   WRITE(6,2) SXFEM2(KXXX), KXXX=JXXX, MMHI)
     317 CONTINUE
C
C.....PRINT OUT DERIVATIVES ON OFF-LINE PRINTER 12 AT A TIME.
     318 IF (PRNTXX) PQ. 25 GC T + 320
              WRITE(7, )
              D = 110 JAME + 1808.1.
                   MMHI=MCX01 1530, (XXX+11)
                   WRITE(7, 22) (IDRM - KXXX), KXXX=JXXX, MMHI)
                   WRITE(1, 23 - :XNTEM1-KXXX),KXXX=JXXX,MMHI)
                   WRITE(I,2: *XVXEM2:KXXX),KXXX=JXXX,MMHI)
     319 CONTINUE
     320 CONTINUE
C
C# SECTION 5: ITEM INTERMEDIATE REPAIR FRACTION (ORDERED BY SIGN
Constitution and a constitution of the constitution of the constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitution and a constitutio
               IF LDRTS .EQ.O.AND LEERV .EQ.O) GO TO 325
               IXXX=MAXC(LDERV , DRTS )
               DO 321 JXXX=1,IXXX
                    XXTEM: JXXX) = FINC = HAMINI (FINC, NRTS(IDRTS (JXXX))) / FINC
                    XXTEM2: JXXX = TIRTS (IDRTS (JXXX))
     321 CONTINUE
C
C.....PRINT OUT DERIVATIVES AT TERMINAL SIX AT A TIME.
               IF(LDRTS .EQ. J.CR.FRNTXX.FQ.1) GO TO 323
               WRITE(6, 24)
               DO 322 JXXX=1,LDRTS .6
                    MMHI=MINO(LDRTS ,JXXX+5)
                   WRITE(6, 25) (IDRTS (KXXX), KXXX=JXXX, MMHI)
                    WRITE(6, 26) (XXTEM1(KXXX), KXXX=JXXX, MMHI)
                   WRITE(6,2) (XXTEM2(KXXX),KXXX=JXXX,MMHI)
     322 CONTINCE
C
C. . . . PRINT SOT DURINATIVES ON OFF-LINE PRINTER 12 AT A TIME.
      323 IF PRNTENTRY OF GO TO 325.
              WKITECT, 245
D0 324 JEMASI, IXXX,12
```

```
MMHI=MINO(IXXX,JXXX+11)
                            WRITE(7, 25) (IDRTS (KXXX), KXXX=JXXX, MMHI)
                            WRITE(7, 26) (XXTEM1(KXXX), KXXX=JXXX, MMH1)
                           WRITE(7,2) (XXTEM2(KXXX), KXXX=JXXX, MMHI)
       324 CONTINUE
       325 CONTINUE
C
C* SECTION 6: ITEM DEPOT REPAIR FRACTION (ORDERED BY SIGNIFICANC
IF (LDNRTS.EQ.O.AND.LDERV .EQ.O) GO TO 330
                     IXXX=MAXO(LDERV ,LDNRTS)
                     DO 326 JXXX=1,IXXX
                            XXTEM1(JXXX)=FINC *AMIN1(FINC,RTS(IDNRTS(JXXX)))/FINC
                            XXTEM2 (JXXX)=TDNRTS (IDNRTS (JXXX))
       326 CONTINUE
С
C....PRINT OUT DERIVATIVES AT TERMINAL SIX AT A TIME.
                     IF (LDNRTS.EQ.O.OR.PRNTXX.EQ.1) GO TO 328
                    WRITE(6, 27)
                    DO 327 JXXX=1,LDNRTS,6
                            MMHI=MINO(LDNRTS, JXXX+5)
                            WRITE(6, 28) (IDNRTS(KXXX), KXXX=JXXX, MMHI)
                            WRITE(6, 29) (XXTEMI(KXXX), KXXX=JXXX, MMHI)
                            WRITE(6,2) (XXTEM2(KXXX),KXXX≈JXXX,MMHI)
       327 CONTINUE
С
C....PRINT OUT DERIVATIVES ON OFF-LINE PRINTER 12 AT A TIME.
       328 IF(PRNTXX.EQ.0) GO TO 330
                    WRITE(7, 27)
                    DO 329 JXXX=1,IXXX,12
                             MMHI=MINO(IXXX,JXXX+11)
                            WRITE(7, 28) (IDNRTS(KXXX), KXXX=JXXX, MMHI)
                            WRITE(7, 29) (XXTEM1(KXXX), KXXX=JXXX, MMHI)
                            WRITE(7,2) (XXTEM2(KXXX),KXXX≃JXXX,MMHI)
        329 CONTINUE
       330 CONTINUE
Constitution of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
C* SECTION 7: ITEM CONDEMNATION RATE (ORDERED BY SIGNIFICANCE)
C_{\textit{total transfer in the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the pro
C
                      IF(LDCOND.EQ.O.AND.LDERV .EQ.O) GO TO 335
                      IXXX=MAXO(LDERV ,LDCOND)
                     DO 331 JXXX=1,IXXX
                            XXTEM1(JXXX)=FINC  #AMIN1(FINC.1.-COND(IDCOND(JXXX)))/FINC
```

```
XXTFM2 (JXXX #TDC NO EDCOND (JXXX))
      331 CONTINEE
C
C....PRINT OUT DEBIVATIVES AT TERMINAL SIX AT A TIME.
                      IF (LDCOND.E) COR. PANTEX.EQ. 1: GO TO 333
                      WRITE(b, 30
                      DO 332 JEEE 1, LDCOND, 6
                             MMHI=MINO(LDCOND,JXXX+5)
                              WRITE(6, 31) (IDCOND(KXXX), KXXX=JXXX, MMHI)
                              WRITE(6, 32) (XMTEM1(KXXX), KXXX=JXXX, MMHI)
                              WRITE(c.2: (XXTEM2(KXXX), KXXX≃JXXX, MMHI)
       332 CONTINUE
C....PRINT OUT DERIVATIVES ON OFF-LINE PRINTER 12 AT A TIME.
       335 IF (PRNTXX, EQ. 0) OU TO 335
                      WRITE(7, 30)
                      DO 334 JXXX=1,1XXX,12
                              MMH1≈MIN9: UXXX, JXXX+11)
                              WRITE(7, 31) (IDCOND(KXXX),KXXX=JXXX,MMHI)
                              WRITE(7, 32) (XXTEM1(KXXX), KXXX=JXXX, MMHI)
                              WRITE(7,2) (XXTEM2(KXXX), KXXX≈JXXX, MMHI)
        334 CONTINUE
        335 CONTINUE
Consequences de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia de consequencia d
C* SECTION 8: LCC SENSITIVITY ON WHICH SRUS SHOULD BE LRU
Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro
                        IF:LDSRU .EQ.O.AND.LDERV .EQ 0) GO TO 340
                       TYXX="MAXCCLDERV , LDSRU )
                       DO 336 JEXXX=1, LEXX
                               XXTEM_ JXXX =TOSRU (TOSRU (JXXX))
         336 CONTINCE
 C
 C....PRINT OUT PERIVATIVES AT TERMINAL SIX AT A TIME.
                       IF LDSRU .EQ. 0. OR .FRNTXX.EQ. 1) GO TO 338
                       WRITE(6, 33)
                       DO 337 JXXX=1,LDSRU ,6
                               MMHI=MINO(LDSRU ,JXXX+5)
                               WRITE(6, 34) (IDSRU (KXXX), KXXX=JXXX, MMHI)
                               WRITE(6, 35: (XXTEMI(KXXX), KXXX=JXXX, MMHI)
                               WRITE(6,2) (XXTEM2(KXXX),KXXX=JXXX,MMHI)
         337 CONTINUE
 C
 C.... PRINT OUT 19 REVATIVES ON OFF-LINE PRINTER 12 AT A TIME.
         338 IF(PRNIXX.EQ.0) GO TO 340
```

```
WRITE(7, 33)
DO 339 JXXX=1,IXXX,12
MMHI=MINO(IXXX,JXXX+11)
WRITE(7, 34) (IDSRU (KXXX),KXXX=JXXX,MMHI)
WRITE(7, 35) (XXTEM1(KXXX),KXXX=JXXX,MMHI)
WRITE(7,2) (XXTEM2(KXXX),KXXX=JXXX,MMHI)
339 CONTINUE
340 CONTINUE
C
RETURN
END
```

```
SUBROUTINE INITAL
```

```
\mathbb{C}
C....INITIALIZES VARIABLES TO DEFAULT VALUES.
C
      COMMON / NTABXX/ NTABXX
      COMMON /NERRXX/ NERRXX
      COMMON /B/ B
      INTEGER B
      COMMON /BINO/ BINO(10)
      INTEGER RINO
      COMMON BERREF BERREF(1)
      INTEGER BAREF
      COMMON DIEREF DIEREF (1)
      INTEGER DIXKEF
      COMMON DUING DUING(150)
      INTEGER DUING
      COMMON /DUM/ DUM
      INTEGER DUM
      COMMON /1, 1
      COMMON / TAJ TA
      COMMON / TAINO/ TAINO(4)
      COMMON / LAXREF ( LAXREF (1)
      COMMON /INO/ INO(150)
      COMMON / IRM / IRM
      COMMON / LRMINO/ LRMINO(4)
      COMMON / IRMT/ IRMT
      COMMON / IRMTNO/ IRMTNO(4)
      COMMON / IRMTXR/ IRMTXR(1)
      COMMON / IRMXRF / IRMXRF (1)
      COMMON /IXREF/ IXREF(150)
      COMMON /KITEMP/ KITEMP
      COMMON /KITNO/ KITNO(4)
      COMMON /K2TEMP/ K2TEMP
      COMMON /K2TNO, K2TNO(3)
      COMMON /L/ L
      COMMON /LT/ LT
      COMMON /LTINO/ LTINO(3)
      COMMON /LTXREF/ LTXREF(1)
      COMMON /LXREF/ LXREF(120)
      COMMON /M/ M
      COMMON /MINO/ MINO(3)
      COMMON /MX1/ MX1
      COMMON /MXIRM/ MXIRM
      COMMON /MXIRMT/ MXIRMT
      COMMON /MXKT/ MXKT
      COMMON /MXKTE/ MXKTE
```

COMMON /MXL/ MXL

810625 085743830

```
COMMON /MXLT/ MXLT
      COMMON /MXM/ MXM
      COMMON /MXNP/ MXNP
      COMMON /MXNS/ MXNS
      COMMON /MXREF/ MXREF(1)
      COMMON /NIA/ NIA
      COMMON /NP/ NP
      COMMON /NPINO/ NPINO(5)
      COMMON /NPXREF/ NPXREF(1)
      COMMON /NS/ NS
      COMMON /NSINO/ NSINO(10)
      COMMON /NSXREF/ NSXREF(1)
      COMMON /SEINO/ SEINO(120)
      INTEGER SEINO
      COMMON /XK1TNO/ XK1TNO(1)
      INTEGER XK1TNO
      COMMON /XK2TNO/ XK2TNO(1)
      INTEGER XK2TNO
С
      NTABXX=0
      NERRXX=0
С
            10 IXXX1=1,1
        IAXREF(IXXX1)=IXXX1
        XK2TNO(IXXX1)=IXXX1
        NSXREF(IXXX1)=IXXX1
        NPXREF(IXXX1)=IXXX1
        IRMXRF(IXXX1)=IXXX1
        IRMTXR(IXXX1)=IXXX1
        DIXREF(IXXX1)=IXXX1
        LTXREF(IXXX1)=IXXX1
        BXREF(IXXX1)=IXXX1
        XK1TNO(IXXX1)=IXXX1
        MXREF(IXXX1)=IXXX1
   10 CONTINUE
С
      NIA=4
      MXKT=4
      MXL=120
      MXNP=5
      MXNS=10
      MXI=150
      MXLT=3
      MXKTE=3
      MXIRM=4
      MXM=3
      MXIRMT=4
```

```
С
     DO 30 B=1,10
      BINO(B)=B
  30 CONTINUE
     DO 40 IRM=1,4
       IRMINO(IRM)=IRM
  40 CONTINUE
     DO 50 IRMT=1,4
      IRMTNO(IRMT)=IRMT
  50 CONTINUE
С
     DO 60 IXXX1=1,150
      IXREF(IXXX1)=IXXX1
  60 CONTINUE
С
     DO
          70 IA=1,4
      IAINO(IA)=IA
  70 CONTINUE
     DO
         80 DUM=1,150
      DUINO(DUM)=DUM
  80 CONTINUE
С
     DO 90 I=1,150
      INO(I)=I
  90 CONTINUE
\mathcal{C}
     DO 100 NS=1,10
      NSINO(NS)=NS
 100 CONTINUE
С
     DO 110 IXXX1=1,120
       LXREF(IXXX1)=IXXX1
 110 CONTINUE
С
     DO
         120 NP=1,5
       NPINO(NP)=NP
 120 CONTINUE
С
     DO 130 K1TEMP=1,4
       K1TNO(K1TEMP)=K1TEMP
 130 CONTINUE
     DO 140 M=1,3
       MINO(M)=M
```

SUBROUTINE TITLE

```
810625 085750039
C* SUBROUTINE TO PRINT A TITLE PAGE FOR OFF-LINE CUTPUT.
Cape agramment of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properti
                         COMMON /XTITLE/ XTITLE(30)
C
                 +44X,1H*,42X,1H*/
                     +44X,44H* AFSATCOM TERMINAL UPGRADES LCC MODEL
                     +44X,1H*,42X,1H*/
                     +44X,10H* RUN: ,30A1,4H
                     +44X,1H*,42X,1H*/
                    С
                        WRITE(7,1) (XTITLE(L), L=1,30)
С
                         RETURN
                         END
```

```
SUBROUTINE TDSORT(TD, ID, LD, N)
C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           810625 085751090
Circinate in the interior of the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in t
C* THIS SUBROUTINE 'BUBBLES UP' TO THE FIRST -LD- POSITIONS IN ARRAY *
                              -ID- THE INDEX NUMBERS CORRESPONDING TO THE -LD- HIGHEST
C* VALUES OF ARRAY -TD-.
Carbible to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to th
С
                                                   DIMENSION TD(N), ID(N)
C
                                                   DO 7 L=1,LD
                                                                   MA=N-L
                                                                   DO 6 M=1,MA
                                                                                    MB=N-M
                                                                                     IF (ABS(TD(ID(MB+1))).LT.ABS(TD(ID(MB)))) GO TO 6
                                                                                                        IDD=ID(MB+1)
                                                                                                        ID(MB+1)=ID(MB)
                                                                                                      ID(MB)=IDD
                                                                   CONTINUE
                                    7 CONTINUE
C
                                                   RETURN
                                                   END
```

SUBROUTINE SSETXX

```
C
                                                                                                                                                                                                                                                         810625 085751135
Cuto allocation for the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color and the color 
C* THIS SUBROUTINE INITIALIZES SENSITIVITY ANALYSIS VARIABLES TO
C* DEFAULT VALUES.
С
                           COMMON /FINC/ FINC
                           COMMON /LDCOND/ LDCOND
                           COMMON /LDERV/ LDERV
                           COMMON /LDFPR/ LDFPR
                           COMMON /LDFR/ LDFR
                           COMMON /LDNRTS/ LDNRTS
                           COMMON /LDRM/ LDRM
                           COMMON /LDRTS/ LDRTS
                          COMMON /LDSRU/ LDSRU
                          COMMON /LDUP/ LDUP
C
                          FINC = .25
                           LDCOND=0
                            LDERV = 12
                            LDFPR = 0
                            LDFR =0
                           LDNRTS=0
                           LDRM =0
                           LDRTS =0
                           LDSRU =0
                           LDUP =0
C
                           RETURN
                           END
```

```
C
                                                     810625 085751454
C۰
   FIRST OF FOUR PROMPTING SUBROUTINES TO READ IN USER INPUTS FROM
C
   THE TERMINAL. IF THIS IS THE FIRST CALL OF THE LCC:
C::
     1- PRINT TITLE
C*
     2- ASK USER WHERE HE WANTS HIS OUTPUT. (PRNTXX=0 TERMINAL ONLY;
C:
        PRNTXX=1 OFF-LINE ONLY; PKNTXX=2 BOTH PLACES.)
C*
     3- ASK USER FOR MIN OR MAX PROMPTING (MAX=LONG PROMPT COMMENTS)
C =
     4- IF USER REQUEST OFF-LINE OUTPUT, GET A NAME FOR THE RUN.
C^*
   IF THIS IS A SUBSEQUENT CALL FOR THE LCC:
C*
     1- NOTIFY USER THAT VARIABLES ARE AS THEY WERE AFTER LAST
C^*
        NAMELISTS WERE SUBMITTED.
C*
     2- ASK USER IF HE WANTS TO REREAD INPUT FILES (RERDXX=1).
C^{**}
     3- ASK MIN OR MAX PROMPTING ONLY IF LAST RUN WAS MAX PROMPTING.
C^*
     4- ASK USER WHERE HE WANTS HIS OUTPUT: (PRNTXX=0 TERMINAL ONLY;
C*
        PRNTXX=1 OFF-LINE ONLY; PRNTXX=2 BOTH PLACES)
C^*
     5- IF USER REQUEST OFF-LINE OUTPUT, GET A NAME FOR THE RUN.
COMMON /EXITXX/ EXITXX
     INTEGER EXITXX
     COMMON FULLXX FULLXX
     INTEGER FULLXX
     COMMON / ITERXX - ITERXX
     COMMON /MANPMT/ MANPMT
     COMMON / FRNTXX / PRNTXX
     INTEGER PRNTXX
     COMMON / RERDXX / RERDXX
     INTEGER RERDXX
     COMMON /XTITLE / XTITLE (30)
     DATA BK/1H ..., CHM / 1HM / , CHI / 1HI / , CHN / 1HN / ,
     +CHA / 1HA / CHX / 1HX / CHY / 1HY / CHP / 1HP / CHF / 1HF /
С
    1 FORMAT(1X/47H AFSATCOM TERMINAL UPGRADES LCC MODEL
    2 FORMAT(1X/50H AT THIS POINT, VARIABLE VALUES ARE AS THEY WERE A,
    +13HFTER THE LAST/
    +53H NAMELISTS WERE SUBMITTED. DO YOU WISH TO RESET NAME.
    +15HLIST GO1 OR GO2/
    +54H VARIABLES TO THE VALUES FOUND IN THE INPUT FILES (Y O,
    +6HR N)-?)
   3 FORMAT(1X/44H MINIMUM OR MAXIMUM PROMPTING (MIN OR MAX)-?)
   4 FORMAT(3A1)
   5 FORMAT(1X/50H SUBMIT 'MIN' OR 'MAX' STARTING IN COLUMN 1. NOTH,
    +15HING ELSE WORKS.)
   6 FORMAT(30H OUTPUT AT TERMINAL (Y OR N)-?)
   7 FORMAT(A1)
```

```
8 FORMAT (49H SUBMIT 'Y' OR 'N' STARTING IN COLUMN 1. NOTHING,
 +12H ELSE WORKS.)
9 FORMAT(55H OFF-LINE OUTPUT: FULL, PARTIAL, OR NONE (F, P, OR N)-?)
10 FORMAT(29H SUBMIT A TITLE FOR THIS RUN:)
11 FORMAT(30A1)
12 FORMAT(/50H SET EXITXX=1 IN ANY NAMELIST IF YOU WANT TO EXIT.)
13 FORMAT(37H SUBMIT 'F', 'P', OR 'N' IN COLUMN 1.,
 +21H NOTHING ELSE WORKS.)
   IF (ITERXX.NE.1) GO TO 16
     WRITE(6,1)
     JO TO 18
16 CONTINUE
  WRITE(6,2)
  RERDXX=2
  STK1=BK
17 READ(5,7) STR1
  IF(STR1 EQ.CHY) RERDXX=1
   IF (STK1.EQ CHN: RERDXX=0)
   TF(RERDXX.NE.2) GG TO 18
  WRITE(6,8)
  GO TO 17
18 CONTINUE
   IF CITERXX GT. 1 AND MAXPMT NE 1 1 GO TO 20
     WRITE(6,3)
     MAXPMT=2
    KEAD(5,4 STK1,8TK2,STR3
     TF(STR).EQ.CHM.AND.STR2.EQ.CHI.AND.STR3.EQ.CHN) MAXPMT=0
     IF STR1.EQ.CHM.AND.STR2.EQ.CHA.AND.STR3.EQ.CHX) MAXPMT=1
     IF (MAXPMT, NE. 2+ GO TO 20
       WRITE(6,5)
       G: To 19
20 CONTINUE
   MM1=2
   WRITE(6,6)
21 READ(5,7) STR1
   IF(STR1.EQ.CHY) MM1≃1
   IF STR1.EQ.CHN) MM1=0
   IF(MM1.NE.2) GO TO 22
     WRITE(6,8)
     GO TO 21
22 MM2=3
   STR1=BK
   WRITE(6,9)
23 READ(5,7) STR1
   IF(STR1.EQ.CHF) MM2=2
   IF(STR1.EQ.CHP) MM2=1
```

Ĉ

```
IF(STR1.EQ.CHN) MM2=0
   IF(MM2.NE.3) GO TO 24
    WRITE(6,13)
     GO TO 23
24 CONTINUE
   IF(MM2.EQ.0) PRNTXX=0
   IF (MM1.EQ.O.AND.MM2.GE.1) PRNTXX=1
   IF(MM1.EQ.1.AND.MM2.GE.1) PRNTXX=2
   FULLXX=0
   IF(MM2.EQ.2) FULLXX=1
   IF(PRNTXX.EQ.0) GO TO 88
     WRITE(6,10)
     READ(5,11) (XTITLE(L), L=1,30)
88 IF(MAXPMT.EQ.1.OR.ITERXX.EQ.1) WRITE(6,12)
   RETURN
   END
```

```
810625 085753101
Considerate the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the se
C* SECOND OF THE PROMPTING ROUTINES. PROMPTS THE USER FOR NAMELIST
          /GO1/(WHICH CONTAINS ALL A-M VARIABLES FROM
                                                                                                                                              THE INPUT
C* FILES AND ALLOWS THE USER TO OVERRIDE THOSE VALUES IN REAL TIME). *
C
                COMMON DEXITXX/ EXITXX
                 INTEGER EXITXX
                 COMMON ITERXX/ ITERXX
                COMMON /MAXPMT/ MAXPMT
                 COMMON / KERDXX/ RERDXX
                 INTEGER RERDXX
                 COMMON - LDERV / LDERV
                 COMMON FINC / FINC
                 COMMON /A/ A(150,4,3)
                 INTEGER A
                 COMMON JACPP ACPP
                 COMMON CARITY ARIT(4,5)
                 COMMON / AMPM/ AMPM(5,3)
                 COMMON /APFH: APFH(5,3)
                 COMMON BAA! BAA
                 COMMON BCMH: BCMH: 150)
                 COMMON BDATA BDATA
                 INTEGER BDATA
                 COMMON /BF BF
                 COMMON /BIRD - BIRD
                 COMMON (BLR) BLR
                 COMMON (BMF) BMF
                 COMMON / BMH. BMH(150)
                 COMMON /BNOUN BNOUN(10,16)
                 COMMON /BPLAT | BPLAT(10)
                 INTEGER BPLAT
                 COMMON / BRCT / BRCT
                 COMMON /BSP: BSP(10)
                 INTEGER BSP
                 COMMON /BTYPE: BTYPE(10)
                 INTEGER BTYPE
                 COMMON /CFG = CFG(3)
                 COMMON /COND/ COND(150)
                 COMMON /CPD1/ CPD1
                 COMMON /CPD2/ CPD2
                 COMMON /CPPC/ CPPC
                 COMMON /CPPD/ CPPD(3)
                 COMMON /CRCT/ CRCT
```

COMMON /CSE: CSE(120)

COMMON / DAA/ DAA

COMMON /DAD/ DAD

COMMON /DATAB/ DATAB(150)

INTEGER DATAB

COMMON /DATAD/ DATAD(150)

INTEGER DATAD

COMMON /DATAS/ DATAS(120)

INTEGER DATAS

COMMON /DDATA/ DDATA

INTEGER DDATA

COMMON / DLR / DLR

COMMON /DMF/ DMF

COMMON /DMH/ DMH(150)

COMMON /DRAG DRAG(5)

COMMON /DRCT/ DRCT(3)

COMMON /FGH/ FGH(5)

COMMON /FPR/ FPR(150)

COMMON /FR/ FR(3,5)

COMMON /FSEDC/ FSEDC

COMMON /GFE/ GFE(150)

INTEGER GFE

COMMON /HPD1/ HPD1

INTEGER HPD1

COMMON /HPD2/ HPD2

INTEGER HPD2

COMMON /I/ I

COMMON / IMC/ IMC

REAL IMC

COMMON /INOUN/ INOUN(150,24)

REAL INOUN

COMMON INTEG: INTEG(150)

REAL INTEG

COMMON - INTNR/ INTNR(5)

REAL INTER

COMMON / INTR: INTR(5)

REAL INTR

COMMON / IPCF / IPCF (150)

REAL IPCF

COMMON / IRMIN / IRMIN (150,4)

COMMON /K/(K(5))

REAL K

COMMON /KFAC/ KFAC(4)

REAL KFAC

COMMON /L/ L

COMMON /LE/ LE(5)

COMMON /LFAC/ LFAC(150)

REAL LEAC

```
COMMON /LO/ LO(10)
      COMMON / LRU/ LRU(150)
      COMMON (MIFIX/ MIFIX(3,5)
      REAL MIFIX
      COMMON /MILR/ MILR(3)
      REAL MILR
      COMMON /MIMH/ MIMH(4,3,5)
      REAL MIME
      COMMON MMPD/ MMPD(5,3)
      REAL MMPD
      COMMON / MMPM/ MMPM(5)
      REAL MMPM
      COMMON , MRF MRF
      REAL MRF
      COMMON (MRO) MRO
      REAL MRO
      COMMON /MSE MSE(120)
      REAL MSE
      COMMON /MTBMI/ MTBMI(150,4)
      REAL MTBMI
      COMMON /MUSE/ MUSE
      REAL MUSE
С
      NAMELIST /GO1 - EXITXX, A, ACPP, AKIT, AMPM, APFH, BAA, BCMH, BDATA, BF,
            BIRD, BLR, BMF, BMH, BNOUN, BPLAT, BRCT, BSP, BTYPE, CFG, COND, CPD1,
            CPD2, CPPC, CPPD, CRCT, CSE, DAA, DAD, DATAB, DATAD, DATAS, DDATA, DLR,
            DMF, DMH, DRAG, DRCT, FGH, FPR, FR, FSEDC, GFE, HPD1, HPD2, I, IMC,
            INOUN, INTEG, INTER, INTR, IPCF, IRMIN, K, KFAC, L, LE, LFAC, LO, LRU,
            MIFIX, MILR, MIMH, MMPD, MMPM, MRF, MRO, MSE, MTBMI, MUSE
\mathbb{C}
    1 FORMAT(1X)
    2 FORMAT(52H NAMELIST /GO1/ CONTAINS ALL VARIABLES FOUND IN THE,
     +13H INPUT FILES /
     +40H THAT BEGIN WITH THE LETTERS A TO M.
    3 FORMAT(53H AT THIS POINT, NAMELIST /GO1/ VARIABLES CONTAIN VAL,
     +13HUES AS IN THE
     +14H INPUT FILES.)
    4 FORMAT(53H AT THIS POINT, NAMELIST /GO1/ VARIABLES ARE AS THEY,
     +11H WERE AFTER/
     +40H THE LAST NAMELIST /GO1/ WAS SUBMITTED.)
    5 FORMAT(54H TO USE THESE VALUES, SUBMIT AN EMPTY NAMELIST /GO1/./
     +50H TO OVERIDE ANY OF THESE VALUES, SUBMIT A NON-EMP,
     +18HTY NAMELIST /GO1/.)
    6 FORMAT(42H SUBMIT NAMELIST /GO1/ IN NAMELIST FORMAT:)
C
      WRITE(6,1)
      IF(MAXPMT.NE.1) GO TO 30
```

```
WRITE(6,2)
IF(ITERXX.EQ.1.OR.RERDXX.EQ.1) WRITE(6,3)
IF(ITERXX.GT.1.AND.RERDXX.NE.1) WRITE(6,4)
WRITE(6,5)
30 WRITE(6,6)
READ(5,G01)
IF(EXITXX.EQ.1) RETURN
C
KETURN
END
```

COMMON /OSTC/ OSTC

```
C
                                                                                                                                                                                                                                                                810625 085756562
C की मार्चिक कि को मार्चिक के प्रति के कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि को कि
C* THIRD OF THE PROMPTING ROUTINES. PROMPTS THE USER FOR NAMELISTS *
C* /GO2/(WHICH CONTAINS ALL N-Z VARIABLES FROM
                                                                                                                                                                                                                                            THE INPUT
C* FILES AND ALLOWS THE USER TO OVERRIDE THOSE VALUES IN REAL TIME)
                                                                                                                                                                                                                                                                                                                                    7.5
C* AND /SENS/ (WHICH CONTAINS SENSITIVITY ANALYSIS PRINT PARAMETERS). *
Constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the consti
C
                            COMMON /EXITXX/ EXITXX
                            INTEGER EXITXX
                           COMMON / ITERXX/ ITERXX
                           COMMON /MAXPMT/ MAXPMT
                           COMMON / RERDXX RERDXX
                            INTEGER RERDXX
                           COMMON /LDERV *
                           COMMON /FINC / FINC
                            COMMON /LDCOND/ LDCOND
                            COMMON /LDFPR/ LDFPR
                           COMMON /LDFR/ LDFR
                            COMMON /LDNRTS/ LDNRTS
                            COMMON /LDRM/ LDRM
                           COMMON /LDRTS/ LDRTS
                            COMMON /LDSRU/ LDSRU
                            COMMON /LDUP/ LDUP
                           COMMON /NAE/ NAE(5)
                           REAL NAE
                           COMMON /NBC/ NBC(10)
                            REAL NBC
                            COMMON /NHB/ NHB(10)
                           COMMON /NHI/ NHI(150)
                            COMMON /NITEM/ NITEM(150,5)
                            REAL NITEM
                            COMMON /NJA/ NJA(150,4)
                            COMMON /NPLT/ NPLT(5,10)
                            REAL NPLT
                           COMMON /NRM/ NRM(150)
                           COMMON /NRMI/ NRMI(5)
                            REAL NRMI
                           COMMON /NRTS NRTS(150)
                            REAL NRTS
                            COMMON /NRUC/ NRUC
                            REAL NRUC
                            COMMON /NTRMP/ NTRMP(5)
                            REAL STRMP
                           COMMON /OST/ OST(3)
```

```
COMMON PA. PA(150)
COMMON PAL1/ PAL1
COMMON , PAL2B/ PAL2B
COMMON PALI2D/ PALI2D
COMMON ; PDIV/ PDIV(5)
COMMON / PIUP/ PIUP
COMMON / PMLR/ PMLR
COMMON /PNOUN/ PNOUN(5,12)
COMMON PTNUM/PTNUM(150,12)
COMMON /QSA/ QSA(150,4,3)
COMMON /QTYP1/ QTYP1
INTEGER QTYP1
COMMON /QTYP2B/ QTYP2B
INTEGER QTYP2B
COMMON /QTYP2D/ QTYP2D
INTEGER QTYP2D
COMMON /R/ R
INTEGER R
COMMON /RCPP/ RCPP
COMMON /RIP/ RIP(150)
COMMON /RL/ RL(150)
INTEGER RL
COMMON /RM/ RM(150)
COMMON /RMC/ RMC
COMMON /RMH/ RMH(150)
COMMON /RTS/ RTS(150)
COMMON /SA/ SA
COMMON / SEDEV/ SEDEV(120)
COMMON /SENOUN/ SENOUN(120,20)
COMMON /SENUM/ SENUM(120,12)
COMMON /SETYPE/ SETYPE(120)
INTEGER SETYPE
COMMON /SPC1/ SPC1
INTEGER SPC1
COMMON /SPC2/ SPC2
INTEGER SPC2
COMMON /SR/ SR
COMMON /TEFM/ TEFM
COMMON /TFAC/ TFAC(5)
COMMON /THRS/ THRS(5)
COMMON /TIME1/ TIME1(150)
INTEGER TIME1
COMMON /TNB/ TNB(10)
COMMON /TNLR/ TNLR
COMMON /TORB/ TORB
COMMON /TORD/ TORD
COMMON /TR/ TR
```

```
COMMON /TRAVB/ TRAVB
      COMMON /TRAVID/ TRAVID
      COMMON /TYP2TF/ TYP2TF
      COMMON /UCPP/ UCPP
      COMMON /UCTDEV/ UCTDEV(150)
      COMMON /UP/ UP(150)
      COMMON /WT/ WT(150)
      COMMON /XFPR/ XFPR
      COMMON /XFR/ XFR
      COMMON /XMIL/ XMIL
      COMMON /XUC/ XUC
С
      NAMELIST /SENS/ EXITXX, LDERV , FINC , LDCOND, LDFPR , LDFR , LDNRTS,
            LDRM ,LDRTS ,LDSRU ,LDUP
      NAMELIST /GO2/ EXITXX, NAE, NBC, NHB, NHI, NITEM, NJA, NPLT, NRM, NRMI,
            NRTS, NRUC, NTRMP, OST, OSTC, PA, PAL1, PAL2B, PAL2D, PDIV, PIUP, PMLR,
            PNOUN, PTNUM, QSA, QTYP1, QTYP2B, QTYP2D, R, RCPP, RIP, RL, RM, RMC,
            RMH, RTS, SA, SEDEV, SENOUN, SENUM, SETYPE, SPC1, SPC2, SR, TEFM, TFAC,
            THRS, TIME1, TNB, TNLR, TORB, TORD, TR, TRAVB, TRAVID, TYP2TF, UCPP,
            UCTDEV, UP, WT, XFPR, XFR, XMIL, XUC
    1 FORMAT(1X)
    2 FORMAT(52H NAMELIST /GO2/ CONTAINS ALL VARIABLES FOUND IN THE,
     +13H INPUT FILES /
     +40H THAT BEGIN WITH THE LETTERS N TO Z.
    3 FORMAT(53H AT THIS POINT, NAMELIST /GO2/ VARIABLES CONTAIN VAL,
     +13HUES AS IN THE/
     +14H INPUT FILES.)
    4 FORMAT(53H AT THIS POINT, NAMELIST /GO2/ VARIABLES ARE AS THEY,
     +11H WERE AFTER/
     +40H THE LAST NAMELIST /GO2/ WAS SUBMITTED.)
    5 FORMAT(54H TO USE THESE VALUES, SUBMIT AN EMPTY NAMELIST /GO2/./
     +50H TO OVERIDE ANY OF THESE VALUES, SUBMIT A NON-EMP,
     +18HTY NAMELIST /GO2/.)
    6 FORMAT(42H SUBMIT NAMELIST /GO2/ IN NAMELIST FORMAT:)
    7 FORMAT(53H NAMELIST /SENS/ CONTAINS VARIABLES THAT CONTROL THE/
     +53H DISPLAY OF THE SENSITIVITY ANALYSIS.
    8 FORMAT(53H AT THIS POINT, THE TERMINAL DISPLAYS SENSITIVITY WI,
     +18HTH RESPECT TO ONLY/
     +63H GLOBAL SENSITIVITY VARIABLES.
     +)
    9 FORMAT(52H AT THIS POINT, THE TERMINAL SENSITIVITY DISPLAY IS/
     +32H AS IT WAS ON THE PREVIOUS RUN.)
   10 FORMAT (53H FOR THE SAME TERMINAL DISPLAY, SUBMIT AN EMPTY NAME,
     +12HLIST /SENS/./
     +54H FOR A DIFFERENT TERMINAL DISPLAY, SUBMIT A NON-EMPTY,
     +17H NAMELIST /SENS/.)
```

```
11 FORMAT(43H SUBMIT NAMELIST /SENS/ IN NAMELIST FORMAT:)
С
      WRITE(6,1)
      IF(MAXPMT.NE.1) GO TO 30
        WRITE(6,2)
        IF(ITERXX.EQ.1.OR.RERDXX.EQ.1) WRITE(6,3)
        IF(ITERXX.GT.1.AND.RERDXX.NE.1) WRITE(6,4)
        WRITE(6,5)
   30 WRITE(6,6)
      READ(5,G02)
      IF(EXITXX.EQ.1) RETURN
      WRITE(6,1)
      IF(MAXPMT.NE.1) GO TO 31
        LDTOT=0+LDFPR +LDSRU +LDFR +LDUP +LDCOND+LDNRTS+LDRTS +LDRM
        WRITE(6,7)
        IF(LDTOT.EQ.0) WRITE(6,8)
        IF(LDTOT.NE.0) WRITE(6,9)
        WRITE(6,10)
   31 WRITE(6,11)
      READ(5, SENS)
C
      RETURN
      END
```

```
С
                                             810625 085801825
C<sup>™</sup> 4TH
       OF PROMPTING ROUTINES THAT TELLS USER THAT LCC HAS BEEN
C* COMPLETED AND THAT GIVES THE USER A CHANCE TO EXIT.
COMMON /MAXPMT/ MAXPMT
    COMMON /EXITXX/ EXITXX
    INTEGER EXITXX
C
    DATA ECHAR/1HE/, BK/1H /
C
   2 FORMAT(1X/15H LCC COMPLETED.)
   3 FORMAT(49H IF YOU WISH TO EXIT, HIT -E-, THEN HIT -RETURN-;,
   +12H OTHERWISE,)
   4 FORMAT(46H ADJUST TERMINAL TO NEW PAGE AND HIT -RETURN-.)
   5 FORMAT(A1)
С
    STR=BK
    WRITE(6,2)
    IF(MAXPMT.EQ.1) WRITE(6,3)
    WRITE(6,4)
    READ(5,5) STR
    IF(STR.EQ.ECHAR) EXITXX≈1
C
    RETURN
    END
```

```
С
                                                                                                                                                                                                                                                      810625 085801971
C* 5TH
                                            OF PROMPTING ROUTINES.
C:;
                                                                                                    GIVES THE USER A CHANCE TO EXIT.
Curvical and the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the first in the f
                          COMMON /MAXPMT/ MAXPMT
                          COMMON /EXITXX/ EXITXX
                           INTEGER EXITXX
С
                          DATA ECHAR/1HE/, BK/1H /
С
                  3 FORMAT(49H IF YOU WISH TO EXIT, HIT -E-, THEN HIT -RETURN-;,
                     +12H OTHERWISE,)
                  4 FORMAT(46H ADJUST TERMINAL TO NEW PAGE AND HIT -RETURN-.)
                  5 FORMAT(A1)
                          STR=BK
                           IF(MAXPMT.EQ.1) WRITE(6,3)
                          WRITE(6,4)
                          READ(5,5) STR
                          IF(STR.EQ.ECHAR) EXITXX=1
C
                          RETURN
                          END
```

```
С
                                                                                                                                                                                                                                     810625 085802128
C An after after the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first
C* SIXTH AND FINAL PROMPTING ROUTINE TO ASK IF ANOTHER RUN IS
C* DESIRED. IF SO, REDOXX=1. IF NOT, REDOXX=0.
С
                        COMMON /REDOXX/ REDOXX
                         INTEGER REDOXX
С
                        DATA YES/1HY/, CNO/1HN/
С
                 1 FORMAT(1X/23H ANOTHER RUN (Y OR N)-?)
                 2 FORMAT(A1)
                 3 FORMAT (49H SUBMIT 'Y' OR 'N' STARTING IN COLUMN 1. NOTHING,
                    +12H ELSE WORKS.)
                        REDOXX=2
                        WRITE(6,1)
                 4 READ(5,2) STR
                         IF(STR.EQ.YES) REDOXX=1
                         IF(STR.EQ.CNO) REDOXX=0
                         IF(REDOXX.NE.2) GO TO 5
                                 WRITE(6,3)
                                  GO TO 4
                 5 CONTINUE
С
                         RETURN
                         END
```

CROSS REFERENCE LISTING

The following tables contain cross reference listings for the LCC Program. Included are maximum dimensions of indicies and cross references listings of variables by subroutines and subroutines by variables. These cross reference tables were generated by AUTOLCC, the program used to generate the ATU LCC Model.

Several functions are labelled differently in the FORTRAN code and the cross reference listing. This is due to the manner in which AUTOLCC handles functions. The lists below give the names found in the FORTRAN code and the cross reference listing for the renamed functions:

FORTRAN Listing	Cross Reference Listing
U	UU
F	FF
XLEARN	LCC
CHLC	CHLCC

TABLE 1
INDICES USED IN THE LCC MODEL CONFUTER PROGRAM

		VARIABLE HOLDE JG		- 20000	
N DEX	MANITUR MENTRIES	POTOTION	RFFERENCE APRAY	REFERENCE ARKAY	RANGE
؛ ,					
\$	Ω •	いとくと	07.0	BXREF	-
ن د م	150	##X }	DITIND	DIXREF	-
	150	Wx 1	0	IXREF	150
1.8	13	A I N	10110	IAXREF	-
2.01	-3	MXIRM	IPRINO	IRMXRF	-
1,671	4	MKIRMI	IPMINO	IRMIXR	-
MITEMP	a	MXKT	X 1 1 NO	XFITNO	-
K21EWP	~ 1	MXHTE	KPINO	XK2TNO	-
د	381	, Ath	SF 11.0	LXREF	120
,	٦.	#1.17	11140	LTXREF	-
£	ĸ	> 5	M 1.40	MAREF	-
a Z	ft.	d*. ¥₩	07: dX	NPXREF	-
'S	٠.	2 × × ×	ON I V	NSXREF	-

TABLE 2 POINTER AMANA USED IN THE LCC MODEL COMPUTER PROGRAM

1 7 7 7 1	. : : : : : : : :				
HO. UTAG	2 CH		MAX		
RE. E. ANT		ARRAY	502.0WA		
7.50 JOH	1NO: 283	ENICIOH	INCICES	ROW	-,100
INDEX #S	40a 71	QUANTIFIES	PER ROW	INDEX	INDE

TABLE 3 SITIVITY VARIAPLES

	INDEX	1				-										
FLAG VARIABLE FOR INTERNAL	CHECKS	LDCOND	LUFPR	LDFR		LONRTS		LDRM	LDRTS	LNSRU	LAUP					
IO ARRAY FOR	SCRTING	CNOCGI	10508	1058		IDNRTS		IDRM	IDRTS	10580	1 Dup					
ARRAY HOLDING CHANGE	IN LOC	TDCOND	TOFFR	1019	Towe	TOTATE	TD910P	TDaw	10815	Tosau	100 p	10x F 2R	T0xFR	TDXMIL	TOXAV	(1)

55-25-81					1				
				1166 CYCL!	IMBLE OFFICE COST MODEL CROSS-REFERENCE TABLE SUBROUTINES BY WARTABLES	S-REFERFN RTABLES	CE TABLE		
	VARIABLES READ	v		> 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VARIADLES ASSIBLES VALUES	VAFIA	VAFIABLES USFD		VARIABLES #RITTEN
SUBS TUBS:									
76 A D 1	TETM CONTROL OF TRACE	∪ ~ m ∢	F.S.EDC. R. W.V.S.E.						
READ2	NBC . BR		. LG	MKNS		S.			
RELD3	FGH . MN AMPM . TF	AMM DO TEAC	, Mirrora , LE , PNGON	a 4 x x		3	ă.		
READ4	AT AMPIN NAMI POI	>	X. INTAR. DARG.	à ? ≥		¥	å Ž		
50×3e	WI. IX . AK	. AKIT .	ı.	0 T + 10		3	41.	ž	
85 AD6	F. 3			4.5.5		S	a Z		
READ7	SEDEV. DATAS , SENUT	MSE DATAS	SENUM. CSE	¥.	SEIND	ب			

Su 25 81				ribe cycul	E COST M SUBROUTE	TIBLE 4 LIFE CYCLE COST MODIL CROSS-REFERENCE TABLE SUBROUTINE BY VARIABLES (CONTINUED)	REFERENCE Ables	TABLE		
	VARIMELES READ) LES		VARIABLES ASSIGNED	14	S o t	VAPIABLES USED	ES.		VARIABLES ERITTER
READB	LFAC RM PA	PINUM INTEG	UF INDUN .	Ov.	1 × × ·		~			
R€ AO9 A	R C C C C C C C C C C C C C C C C C C C	BCMH RTS RIP	MIEN	DVI	IXW.	EAR	9,000			
96 0538	UCTDE 1	UCTDEV, DATAD , DATAB	DATAB .	ON T	.MXI					
READIO	₩ W W	4.™	NIENIN.	071	I XW.		z z	Ι.		
READ! 1	ZI1EM			0 N I	.MXI		a Z	٦.		
CALC SUBS							,	į	V 2 X X	
XAFINI				58.CBF	USE BRSC SECBP BSECP TUCTOCINFO		MXI	X SN .		
				I SET ERHAB	TERMH B . SEPC					
				O. 1 4 2	SECOP	-				
) 12 kg						
				54.11						
				0.48 0.48 0.48	BXTRC	OFACA				
				. [] [00]		. 811MC .				
				.; ; , , ,						
				10		05 MCD .				
				0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						

. 4 ABLES READ READ	USE (1915 COST MODING CROSS-REFERENCE TABLE SUBFOUTINES) IN VARIABLES VANIANCES VANIANCES ASSISTANCES ASSISTANCES TABLE FAIL FAIL NATIONAL		VARIABLES VARIABLES **RITEN **
	N N N N N N N N N N N N N N N N N N N	and Soloward	4 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	ECCSI . ERMBI . ERMD .	_	81 - PE
	Estra L PM1 . Estra	NAN EBCBI EBHA IRNT INO EBHA MAX MAX INS OSA MAX I I IN OSA MAX I I BSSA MAX I I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I I BSSA MAX I BSSA	E C L D B C C C C C C C C C C C C C C C C C C
	1.01381, 1361	NAM 1587 1897 1NC EPHRB1 EPHRB1 NN MAKS MXI NN A 1PYIN QSA 1SFTO MXLT I	18.77 18.70 18.70 18.71 18.71

,	VARIABLES WRITTEN							
-REFERFNCE TABLE Tablés	VARIABLES USED	ERMAB, MUSE, BAA DAA, MXL, MXNS, NS, SEIND, L SETYPE, ERHAD	BTYPE, MXNS , NS	PILP , INB , ING , NPIT , MXNP , TFAC , MXI , NS , MXI , NS , NS , NS , NS , NS , NS , NS , N	PILP TAB NRM TUCTDC MSE ISFT ER-AB UCTDEV ERHA BAB I PATT DAA TEFHO INO COND MXI SECI EKH-11 ER-HD MXIS UCTDC MXI TER-HB NS NSTD MXI PBDV I SECE SECO SECO SECO SECO NXI SECO MXI MXI MXI MXI MXI MXI MXI MXI MXI MXI	TNE LERU INO . NPIT MXNP MXNS . MXI NS NP . NITEM I	1 NE (ME) 1 NO (ME) 1 NO (ME) 1 NO (ME) 1 NO (ME) 1 1 NO (ME) 1 NO	TAT . INO . CO.D . MXNS . MXI . NS . TAN . INH I . I I I I I I I I I I I I I I I I I
TABLE ADST MODEL CROSS-REFERENCE TABLE SUBROUTINE; BY VARIABLES (CONTINUED)	VARIABLES ASSIGNED VALUES	USE , USED	SAT , CIMF	►	TUCTDC.ERMA TERMD, SECT .UCTDC TERMN PBDV PDDV SECV NSED SECO SECE	PIAEQ	\$0° 0511	YROQ
	VARIABLES READ	}						
00/25/ 81		יי כי אַנּ		21 (PE 21FR	75EC1	03%2	05112	050.7

	VARIABLES WRITTEN							
		**************************************	ī.		,XITEMQ.	HOWET HOARIT INO MANS NP INTNR	MYLR MYND NS NS MXM	MAPPE OLCT MAPPE MXNP NNS NNS APFH TNLR
TABLE	ILES	PINEO	X X		۲.	TERMH LUP MYNP NS TOTT	TNB INTCA NPET NRMI RMICA XMIL	TNB MWPD AWPM BAFC BPLAT THRS CFG
-REFERFNCE TABLES	VAFIABLES USFD	1 NC 11 SQ 7 R SQ	Ü	9.6	LFAC 101PQ	TAN COP NPC MXPC NITEM INTER	NIE FR IA MXNS NP NP MIFIX	M N PROFICE PR
TABLE 4 LIFE CYCLE COST MOUL WIDSS-REFERFNCE TABLE SUBROUTLES PY VARIABLES (CONTINUED)						HOWRT HOMRIT, LUP TEAMC ,	. RMICA	AFO.
SUBRO	VARIABLES ASSIGNED VALUES					A TERMI	IMICA , MIC	a 310.
LIFE CYC	VARIABLES ASSIGNED	70120	2			76 рясос 1011	M C C C C C C C C C C C C C C C C C C C	ສ ດ ວາລອ ວ່າ ວິ
	VARÍABLES READ							
00, 25 81		21012	210	u u	ינט	.0371	COST2	C037 3

	VARIABLES				
		BESC INO INO INS INS	LRU LRU INO BPLAT NRUC XUC	BIYPE XFPR INO TFAC MXI ONMCA FAIL FAIL RIP	BLY PER BLR BLR BLR BLR BLR BLAT BRING CO. PD CO. P
TABLE	SILES	BTYPE LC ISCB MXNS TISQ OS XUC	TNB RSCA WS NS I I	HANBER ON WE WAN WE WAN WE WAN WE WAN WE WAN WAS WAN WAS WAN WAS WAS WAS WAS WAS WAS WAS WAS WAS WAS	11788 11788 11780
-REFERFNCE JABLES	VAFIABLES USFD	TAN TO THE STATE OF THE STATE O	PIUP BRSC LC COND COND MXJ FAJL NHJ	PIUP BMF LRU NPFI MXFS NS NITEM BORNC 1 1 10 10 RMF	PILE BMF KFFR LRI TCFD CCNCD CONCO OFNCD TR OFNCD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TABLE 4 LIFE CYCLE COST MODSI CASS-REFERENCE TABLE SUBROUTINES BY VARIABLES (CONTINUED)	16.5	, 1526 , 05	os.	. DNMCA , BD NMC	OFMCA.
E COST SUBROUI	VARIABLES ASSIGNED VALUES	. 81SC	RS C	, DNMCA	. DFMCB
LIFE CYG	VARIABLES ASSIGNED	JSCD BBS ISCA	BRSC	ONNC	TCFD DFFCD BOFMC
	VAABLES READ				
0 / 0 / 0		COST4	cas 15	C051 6	C3517

		TABLE LIFE CYCLE COST MODEL CROSS-REFERINCE TABLE SUBROUTINES BY VARIABLES (CONTINUED)	SS-REFERFNCE TABLE ARTABLES O)	
	VARIABLES READ	VAR. ABLES ASSIGNED VALUES	VAF:ABLES USFD	VARIABLES
00 ST 8		SECRE REECP . TS.C . SECRE . S	BSFCP TUCTOC.MSE (SECTOR SECTOR	
COST 9		IINCB IIMC , IIMCA , I	PICP , TNB , BYPE , IICB , LNU , SA	
005710		PPSE TDC , TNSE , STDC	PILT TNB GIYPE INRY EBCBI EBHAB INRY PPSE ONWC ACEP INSE RCP INC DATAD MALE EB-D MAN S OF MAY IN STOCK BDATA DATAB ODITA OSA MALI STOCK SCILL STOCK SCILL STOCK SCILL STOCK SCILL STOCK SCILL STOCK SCILL STOCK SCILL STOCK SCILL STOCK SCILL SCILL STOCK SCILL SC	

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	VARIABLES	u		
w		CPC1 , CPC2 , MTRC , CPC1 , CPC2 , MTRC , CPC1 , MTRC , INO , IND , MANN	MASSE MASSE	
E TABL	BLES	11.9 , 1284 2P(1 , CP32 17.91 , IMTRC TRAVIO , IMTRC TRAVI	PILEP LUSE NAT PER NATE NATE NATE NATE NATE NATE NATE NATE	
-REFERENC JABLES	VAF1ABLES USFD	PILP CPUI CPUI TXVIO MXXV PALI PALI NP TOFB HPCF HPCF HPCF HPCF	NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW	
TABLE LYCLE COST MODES CROSS-REFERENCE TABLE SUBROUTINES BY VARIABLES (CONTINUED)	VARIABLES ASSIGNED VALUES	MTRC IMTRC .	. x 1 7 E M.Q	
TIFE CYCL	VARTABLES ASSIGNED	129A 120A MTRCI	J.	
	VARIABLES READ			
		COST 11	O F O	

		•		XFPR .	MILR . BAAA . PMLR . PAL2D . MRQ .	ACPP	MUSE TYP2TF. TYP2TF. NRAC. HPD1	NHB
	VARIABLES WRITTEN			G. X.	BLR DMF DAA DAAAB PALZB TORB	000000	FSEDC CPD1 OTYP1 SDATA STR SBIRD OTYP2B	BTYPE,
	VARIABL	2		PIUP FINC XUC	BMF DLR MRF TRAVI TR HPD2	OSTC SA CRCT CPPC OST DRCT	PIUP TEFM XFPR BF DDATA XMIL SPC2 SPC1	F X J
		ONDO.	181.					
TABLE	31.65	NETS CON. RATS WATE NITER L	CONDO					SN.
EFERFNCE BLES	VARIABLES USFD	E N E N E N E N E N E N E N E N E N E N	R INC BXI BIFD					M X N S
LIFE CACLE COST WODEL CROSS-REFERFINGE TABLE SUBROUTIAES BY VARIABLES (CONTINUED)	VARTABLES ASSIGNED VALUES	NE RRYV	R. NATS .CO4D ,					
	VA.JABLES READ							
		E 22 C K 1	d WOOT &	CTABST	1 7 A B 1 ▲	B	 5.08	

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	VARIABLES WRITTEN	FGH , MMPD , MMPM , AMPM , TFAC , NP LE , THRS , APFH , PNOUN	NTRMP FR K NAE , DDIV NAE ,	NP MIFIX AKIT .	NPLT , NP	SEDEV DATAS SENJM , SEDEV DATAS , CSE .	LFAC LRU UP RM PTNUM INDUN PA INTEG I	RL BCMH NRTS COND RTS FPR 1 RTP MTBM1 1 LEFF RMH BMH .	UCTDEV, DATAD , DATAB ,	ALM ASO. ALM	A	A . 1 . 450. A . 1	. 450.	NITEM .I
FNCE TABLE	VAFIABLES USFD	dN' dXXW'	, MXNP , NRMI ,	. IA . MXNP .	MXNP . NS WAXM	11 , SEINO , L	I. IXM, INI	ING MAI .I	I. IXM. ONI	IRWI , INO , MKI IRWIN , I , MKIRMI	IRMI ING 'MX! '. IRMIN'! MX!RMI	IRN'I INO 'MAI 'IRN'I 'I 'MAIRMI	IRMI IND MAIL IRMI IRMI IRMI	ING . MXI . NP
TABLE 4 LIFE CYCLE COST MODEL CROSS-REFERFNCE TABLE SUBROUTINE; BY VARIABLES (CONTINUED)	VARIABLES ASSIGNED VALUES US	•	2 Z Z	¥ Z	CM	T T T T T T T T T T T T T T T T T T T	ui	41						á .
	VARIABLES READ 													
25 81		11483	48411	17485	961:	ITAB7	17488	4 A B 9 A	114898	116104	178108	301513	1.6100	1.84.

			מסמי			
	VARIABLES WRITTEN		. THIL			
	VARIABLE WRITTEN		a z			
		MING . SIDC . SEDC .	MANNS	. BCLC . 15CB . . O'MCD . . O'MC .	88.80 11.00	
TABLE	LES	ISEC IIMC MIC TERMI	MILR MXNP NP NP XMIL MIMH	DOWNC DOWNC 11SC OFRCB	SECRE SECRE SECRE SECRE BTOCT BTOCT BTOCT BTOCT BTOCT SECRE SECRE	01100000
REFERFNCE ABLES	VARIABLES USFD	FSFOC SEFC DNN'C 1SC OC	NIP FR NPLT NS MIFIX AXJT	BRSC BASC BASC BOUMC AFC BOTMC	1870 BBOTO BBOTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO BATTO	SECTION SECTIO
LIFE CYCLE COST NODEL CROSS-REFERENCE TABLE SUBROUTINES BY VARTABLES (CONTINUED)	VARTAS ES ASSISVED VALUES		7V15.		B 10C . B 10C . B 10C . B 10C . B 10C . B 10C . B 10C . B 10C A .	
	WARIABLES REAC					

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			. 11AC . 1NDUN .	**************************************	
	VARIABLES		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SENDUN, L
ERFNCE TABLE	VAFIABLES USFD	15CD 885CP 80LC 85CP 10CD 10CD 10CD 10CD 10CD 10CD 10CD 10CD	NO NO NO NO NO NO NO NO NO NO NO NO NO N	FPW . 15CA PICP . TNB . 1NO . ND. T . MKNS . MKNS . MXT . NS . NS . NTEM . BS . DS . FA!L . I . FPM	RSCA LRU INO OFFICE MX: FPM TAPE BILE TAPE BY PE TOUR MX: MX: SEDV NSEO SEINO SEDV NSEO SEEDC L
TABLE 4 LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE SUBROUTINES BY MATABLES (CONTINUED)		BIDCA BIDCM BIOCG .	TIAC , FPLT , FPM	FPLT . FPM	
	VA .: ABLES READ				
00, 25 '81		Q1 & B 3 C	OT A B 4 A	. 01.8848	07484C 07485

	VARIABLES FRITTEN	NONG. dw. dwatn	TMPYT1, TABMHY, TABMP , SAMHY , SAMHY , SAMHY , SAMHY , SAMHY , TMPYT2, ABMP , ABMHYD , ABMHY	IND . MXI . TIAC		
REFERFNCE TABLE ABLES	VAFIABLES USFO	INF NTRWP LEG MAIN TERFOR NALE MAIN NS NN NS NN NS NN NS NN NS NN NS NN NS NN NS NN NS NN NS NN NTRW NS NN NS NN NTRW NA NA NN NS NN NTRW NA NA NA NA NA NA NA NA NA NA NA NA NA	TMFY T126A TAGWHY. TNF BMF XFPR BCKW TABUP LGC DMF MRF QCVO MANN RTS CCVO MANN RTS ACMP MAT TR TORB MAT TR TORB TORD FPR FALL I RIP ABMHYM, HPFT HPD2 NHI BMH QTYP28 GTYP20. DMH TIME: ABMHYD.	INC , DUM , MAKI ,	DILP , TNB , FINC , CON"C , UP , 13,0 , SECR , COVO , CPIUP , MX1 , NS , MX1 , NS , MX1 , NS , MX1 , NS , MX1 , NS , NS , NS , NS , NS , NS , NS , N	MST 15ET 8LF (RAB) ERAB DLR 8AR (RAB) FINC DAA (0.40C) INC MY (E-+BI) ERRO MY (STED) NS (15ETO) SEINO CS! I SEINO CS! I
TABLE A LIFE LYGLE CONT MODIL CROSS-REFERFNCE TABLE SUBROUTINES BY VARIABLES (CONTINUED)	VARIABLES ASSICUED VALUES		AUSP SAMHY SAMP AUSP SAMHY SAMP AUSP TANHY SAMP AUSP TANHY TO ABMP ABMHY O		10P1UP, CP1UP	TONE
-	JAGIAGLES READ	,	2.5	ART C SUBS	<u>a</u>	
50 25 8 1		0 1 A 8 6	01AB7	SENSCALC SUBS	an i da	00% F

	VARIABLES WRITTEN							
		FINC	, MX I .	, 15C ,	INO	17.8 NFO 105A 1841 1841		. 1.
E TABLE	8165	TNB MXXI FF IL LDRM	ON1,	TERMH , FINC RSC	MXI MXI XUC		ANNS OF MENT OF STREET OF	
REFERENC' ABLES	VAFIABLES USED	PILIP PAXES RRM NATI	TOFM	TEFM	RSCA FINC MXXXP NITEM ISCA	PIL:P NRN RSCA BAE DAE	COFD MRKS TIEG TIEG USFD USFD NHI YRSO NJA	INC
TARLE 4 LIFE CYCLE COST WOD'L CROSS-REFERENCE TABLE SUBROUTINE'S BY VARIABLES (CONTINUED)	VARIABLES ASSIGNED VALUES	TORM . IDRM	TOXRM	TOXUC	quoi, quot	IOFR TOSA TISONXITEMO, TOFR		TOXFR
	VARIABLES READ	•						
06 - 25 -81		DRM	3		d no	O R		DXFR

	VARIABLES FRITTEN					
REFERENCE TABLE	VADIABLES USED 	PILP USE 17-5 NE	IND. TOPOR .MXI	TDPTS LDRTS . COND . INC . NRTS . COND . MX: . I	LD*RTS, FING . ING . CO:0 . RTS . MXI . TDNRTS, I	FING LECOND.ING . NRTS . COND . RTS . MXI . TDCOND.I
TAB 5 4 LIFE CHUIG COST VOOS, CROSS-REFERFNCE TABLE SUBROUTHES BY VARIABLES (CONTINUED)	VARIAGES AUSTONED VALUES	1.25 A. 105PR X.15MQ X.15MQ .	ad 3 / CL	TCATS , IDRTS	ICARTS, TONRTS	TDCOND, IDCOND
	AASES READ					
0.000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.		α 11 14 0	or o. u. ×	. do .	0.1913	OKOJO

	VARIABLES ERITEN				TORTS, TDXER IDNRIS, TORM IDER LOSRU 1038M. TORN LOS LOS LOS LOS LOS LOS LOS LOS LOS LOS
TABLE 4 LIFE (YCLE COST MODEL CROSS-REFLNINCE TABLE SUBROUTINE'S BY VARYABLES (CONTINUED)	VARIABLES ASSIGNED VALUES USFD	105RU 105RU 1 1 1 1 1 1 1 1 1	TOWLE TDAMIL NIP THE WIRE FINC TOWLE IA NUCLE MACH WASS NS NEW MACH WASS NS NEW MACH WASS NS NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW		LOSTS .LOSTS .Lo
	VARIABLES READ 	σας.	סאשור	sens areastra	58.3 50

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		LIFE CYC	LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES BY SUBROUTINES	ENCE TABLE	
VARIABLE Name	REAL OR INTEGER	SUBPOUTINES WHEPE READ	SUBROUTINES WHERE ASSIGNED	SUBROUTINES WHERE USED	SUBROUT!NES WHERE WRITTEN
A([.4.3)		READ10		COSTIO.ZISET DSRU . ZSECI DEPR .DFR . CHIC ,ZERMSE	17810A,17810D,17810B,
ABMHTC(NS)	α		OTA87	01A87	OTAB7
ABMHYR(NS)	α		OTAB7	OTA87	01AB7
ABNIP (NS)	α		OTA87		OT A 87
АСРР	œ	READ1 .		005710	11.4818
ADMP	α		OTAB7	OTAB7	OT A 8 7
AFC	α		COST3 , INITAK	COST3 ,OTAB3B,UTAB3A, OTAB3C	
AFMC	α		INITAX		
AKIT (IA.NP)	α	READS		COST2 , OTAB2	ITABS
AMPK(NP,M)	α	READ3		COST3	ITAB3
APFH(NP.M)	α	READ3		GTABG ,COST3 ,COST6 , ZFAIL ,ZTFR	ITAB3
æ	H			ZNFB , DSRU , DFPR , CHLC , ZERHB	
3AA	œ	READ!		ZUSE , DSRU , ZSECI , DFPR , OFR , CHLC , DDMF	ITABIA
82FC(6)	α		COST3 , INITAX	COST3 , QTAB3B, UTAB3A, QTAB3C	
всян(1)	α	READ9A		COST7 ,01487 ,05RU , DFPR ,CHLC ,2ERHB	11A89A
802.7A		READI		005710	ITABIC
14	œ	READ1		1 <u>0.</u>	17AB1C
BIIMC(6)	œ		INI TAX, COST9	OTAB38. JOST9 , UTAB3C	
8140(8)	•				
9180	Œ	READ1		RLCOMP	1*481C

19/67/00					
		LIFE	TABLE S LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES 3Y SUBROLITINES (CONTINUED)	ENCE TABLE	
VARIABLE	REA. OR INTEGER	SUBPOUTINES WHERE READ	SUBROUTINES WHERE ASSIGNED	SUBROUTINES WHERE USED	SUBROUTINES WHERE WRITTEN
815C(6)	e c		INITAX, COST4	OTAB38, COST4 , UTAB3A, OTAB3C	
BLR	ŧr	READI		CDST7 , DSRU , COST6 , DFPR , CMLC , DDMF	ITABIA
25 F	œ	READ		COST7 , OTAB7 , USRU , COST6 , DFPR , CHLC , ZERHB	ITABIA
BMH(I)	Œ	READSA		COST7 , OTAB7 , DSRU , CHLC , ZERMB	17A89A
BWTRC	α		COST11, INITAX	COST11,0TAB3B	
BNJUNINS, 16)	œ	READ2			ITA82
BOFMC(6)	Œ		COST7 , INITAX	CCST7 , OTAB38, UTAB3A, OTAB3A,	
8010(6)	α		COST3 , INITAX	COST3 , OTAB38, UTA83A, DTAB3C	
BC4MC(6)	œ		INITAX, COSTS	OTAB38.CGST6 ,UTAB3A, OTAB3C	
BPLAT(NS)		READ2		COST7 .COST3 .UTAB3B. CCST4 .DTAB5 .COST6 . COST5 .COST8 .COST9 . DTAB3C	ITA82
9ACT	Œ	READ1		ZNFB . DSRU . DFPR . CHLC	ITABIB
BRSC(6)	α		INITAX, COSTS	OTAB38, COST5 , UTAB3A, OTAB3C	
95(1)	α		INITAX, COST4	COST4 , OTAB4B	OT A 848
BSECC(6)	œ		INITAX, COSTB	OTAB3B,CCST8 ,UTAB3C	
BSECP(6)	ĈΥ		INITAX, COSTB	OTAB38, COST8 , OTAB3C	
BSP(NS)		READ2		ZERHSE	ITAB2
87001	α		INITAX	OTAB3B	
BTCC(NS)	œ		C0ST10	COST10,0TAB38,STAB3C	

			TAB!E 5		
			LIFE CYCLE CDST MOD:1 CROSS-REFERENCE TABLE VARIABLES 37 SUBROUTINES (CONTINUED)	NCE TABLE	
/ARIABLE NAME	REAL OR INTEGER	SUBPOUTINES WHERE READ	SUBROUTINES WHERE ASSIGNED	South and a second a second and	SUBROUTIVES WHERE WRITTEN
3.DCA	Œ		OTAB38, CTAB3C	014838.014830	
3,000	œ		OTAB3B	01.838	
81000	α		OTAB3B, OTAB3C	014839.01483C	
37001	œ		OTAB3B	014838	
BTDCM	œ		OTAB3B, OTAB3C	OTA838, OTA89C	
97DC\$	α		014838	OTAB3B	
втрот	α		014838	OTAB3B, OTAB3C	
BTYPE(NS)		READ2		0513	74 60
				ZNFB ,01AB38,359U COST4 ,01AB5 ,CCST6 , DFPR ,COST5 ,CHLC COSTB ,CERHB ,	700
BXREF(1)	-				
BXTRC	α		INITAX		
CFG.3)	Œ	READI		C0513	0.047
CIMP(NS)	œ		ZTYPE	CHA ROLD DARO	
(1)(00)	α	READOA	a a a a a a a a a a a a a a a a a a a		
				COSTTI, COGTT, CARE DIABLE DATE, CRRCKI, DSRJ. (SECT, CALUP DCOND, OF PR. (FR. RICCOND, COSTS, CHLC. COSTS, CARTS, LYRLO, ZERHB, DRMTS, LYRLO,	ITAB9A, DSENS
1000	α	READI		005111	7 B B 1
CP32	α	READ1		C05711	
من:ما	α		d) I dQ	dn I dQ	. u
O s d o	α	READI		COST7, DSRU . DFPR	01CT
(6)044)	q	0 4			

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		L 1 F E	14BIE 5 LIFE CYCLE COST WODEL CAOSS-REFERENCE TABLE VARÍABLES 3Y SUBROLTINES (CONTINUED)	S TABLE	
VARIABLE VAME	REAL OR INTEGER	SUBROUTINES WHERE READ	SUBROUTINES WHERE ASSIGNED	SUBROUT INES WHERE USED	SUBROUTINES WHERE WRITTEN
CACT	Œ	REACT		ZNFB , DSRU , DFPR ,	11.4816
CSE(L)	α	READ 7		DSRU .OTABS .ZSECI . DFPR .DFR .CHLC . COSTB .DOMF	17887
DAA	α	READ1		ZUSE , DSRU , ZSECI , DFR , CHLC , DDMF	ITABIA
DAD	α	READ1		ZNFB , CHLC	ITA818
DATAB(I)	1	REA09B		005110	ITAB96
SATAD(1)		READSB		CDST10	17A898
DATAS(L)	•	READ7		002110	ITAB7
DDATA		READ.		005710	ITABIC
DIXREF(1)					
DLA	α	READ1		COST7 DSRU JHLC . DDMF	ITABIA
<u>د</u> چ	Ćc;	READ1		COST7 , GTAB7 , DSRU , CMLC , ZERHB	ITABIA
OWH(I)	œ	READSA		COST7 , OTAB7 . USRU .	ITAB9A
SMTRC	α		COSTIT, INITAX	OTAB38, OTAB3C	
DRAG(NP)	α	READA		C0513	11484
0901(3)	œ	READI		ZNFB , DSPJ , HLC	17AB18
05:10	œ		COS14 , 2715Q	COST4 , ZTISQ , JTA848	OTA 648
0.10	α		CTAB3B, DTAB3C	D11838,0'A83C	
(Who othing	•				
******	H			COSTB , R.APRT	
(SN.1 18283	α		25.2	C05110, 25849 ERHSE	
ERMA'L)	α		ZSECI	25501	

06/25/81 VARIABLE NAME ERHAB(L, NS) ERHBI(I, NS) ERHBI(I, NS)		LIFE CYCLF V SUBPOUTINES WHERE READ	LIFE CYCLF COST MODIL CROSS-REFERENCE TABLE VARIABLES 3Y SUBROUTINES SUBROUTINES WHERE ASSIGNED INITAX,ZERHSE COSTIC ZERHB INITAX,ZERHSE COSTIC ZERHB ZERHSE	1111.05. USE., USE., 121.05. 121.05	SUBROUTINES WHERE WRITTEN
FAIL(1,NS)	ac ac	READS	INITAX, ZFAIL	01484 (COST) (24FB , 01487 , 05FB , 01484 (COST) (COST) (COST) (COST) (COST) (COST) (COST) (COST)	17883
FINC	α			DUP , DRIS , DFIUP , DCOND , DFPR , DFR , DXWC , DDMF , DRMF , DXWC ,	OSENS , OTABST
FPLT(1)	œ		OTAB4A, INITAX, OTAB4B, ZTFR	D7AB4A, D7AB4C	OT A B 4 B
FPM(1)	œ		OTAB4A, INITAX, CTAB4B. ZTFR	OTAB4A, OTAB4B, JTAB4C, 21FR	OTAB48
FPR(I)	α	READ9A		COSIT, 2MFB .01ABT, DSRU .COSIE, 0FPR , CHLC .ZERHB	ITAB9A, OSENS
FR(M.NP)	α	READ4		DXMIL , COST2 , CTAB2	17 A B 4
FSEDC	œ	READ1		01AB1	ITABIC
GFE(1)		READ8			17AB8
HOWRIT(I,NP)	œ		COST1	DFPR , COST1 , CHLC	

	SUBROUTINES WHERE WAITTEN		ITABIS	ITAB:A	178104, 17894, 078844, 178898, ERRCKI, 078848, 178810, 178108, 17810C, 1788				OSENS	OSENS	OSENS	OSENS	OSENS	OSENS	OSENS
ICE TABLE	SUBROUTINES WHERE USED	11500	COST11,0TAB7	COST11,01AB7	COSTIO, ITBIOA, ITAB9A, COSTIO, COTAGAA, ZISET COTAGE COSTIONOSTI COSTI	DXMIL ,ITABS ,COST2 , OTAB2 ,READS									
TABLE 5 LIFE CYCLE CCST WODEL CROSS-REFRENCE TABLE VARIABLES 3Y SUBROWITYES (CONTINUED)	SUBROUTINES WHERE ASSIGNED	11500							DCOND	Эгря	OFR.	DNRTS	DRN	DRTS	DSRU
LIFE SYCLE	SUBPOUTINES WHERE READ		READ1	READI	READS . READSA . READS										
	REAL OR INTEGER	α			••					• • •	H		H		
	. ARIABLE	HD#RT (NP)	10d1	HD02		4	IAINO(IA)	LAXREF(1)	(1)05-6071	[Depart]	(1)89(1)	(1)51840:	(1.WECI	10815-1)	(1)08501

E TABLE	SUBROUTIVES SUBROUTINES WHERE USED WALTEN	OSENS	01 AB38,01AB1 ,UTAB3C	D1AB4A,C0S19	OTAB38, COST9	OTAR38, COST9 , UTAB3C	OTAB3B, COST9 , UTAB3C	OTAB38.DPIUP .CDS79 . OTAB3C	COST9 ITABIB	C0ST2	COST11,OTAB3B,UTAB3C	CCST10, [1010A. TA88A, RLAPRI CTA84A.21SET01A86 . COST11, COST7 . UUP . ZNFB . 11A898.4.70TPQ. ZNFB . 11A898.4.70TPQ. DRTS . ERRCK1.05RU . DRTS . ERRCK1.05RU . DRTS . COST4 . 4.11SQ . CCST6 . OTA848.4.FAIL . ZEC1 . DF1UP . 17A811 . DSCND . 11A800.0FR . COST9 . 14D81.0FR . COST9 . 14D81.0NFT . ITA108.17910C. 17A88 . DXFPR . DOMF . 4.7RSQ . ZERHB . ZPMEQ . 4.FR . DRM . ZERHSE. JARM . CCST1 . 17A84	
TABLE 5 LIFE CYCLE COST WOOTL CROSS-REFERENCE TABLE VARIABLES 3) SUBBRITINES (CONTINUED)	SUBROUTINES WHERE ASSIGNED	d D Q	C0519	INITAX, COST9	INITAX, COST9	INITAX, COST9	INITAX, COST9	INITAX,COST9		C0S12	COST11, INITAX	READB, READIO, PEADII,	
LIFE C	SUBPOUTINES WHERE READ						,		0			READ8 READ8	READ4
	REAL OR Integer		- c	z (r (x (× 4	: Œ	•	× 0	x 0	<u>α</u> α α α	œ
06/25/8:	VARI 4BLE NAWF		1006(1)	IIMC	I MCA(I)	IIMCB	1 1 MCD	IIMCR		IWO	IMICA(NP)	INOUN(1,24) INTEG(1) INTR(NP)	1-1 R(NP)

6,25/81		LIFE C	TABLE 5 LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES 39 SUBMONTINES	NCE TABLE	
ARIABLE IAME	REA OR INTEGER	SUBPOUTINES WHERE READ	SUBROUTINES WHERE ASSIGNED	SUBROUTINES ETERE USED	SUBROUTINES WHERE WRITTEN
Wo					
RMIN(I,4)		READ 10		COSTIO, ITBIOA, (1951), DSAU , 25ECI , 118100, DFPR , DFR , CHLC , ITBIOB, ITBIOC, ZERHSE	
I RIA I NO (I RM)				. 10010	
IRMT				COSTID. T BIDA (1957) DSRU , ZSECI , 118100, DFPR , DFR , CHLC , ITB108, ITB10C, ZERHSE	
IRMTNO(IRMT)	-				
IRMTAR(1)	•				
IRMXRF(1)				OTAB38.OTAB1 ,UTAB3A,	
180	œ		COS 14	DXUC , OTAB3C	
15CA(1)	α		C0514	OTAB4A, OUP , USRU , COST4 , OFPR , OFR , CHLC	
,	d		INITAX, COST4	OTAB38,COST4 ,UTA93A	
15CB 15CD	x ox		INITAX, COSTA	QTAB3B, COST4 , OTAB3A, OTAB3A,	
1SET(L,NS)	œ		ZISET , INITAK	ZISET DSRU ,ZSECI , DFPR ,DFR ,CHLC , DDMF	
	α		ZISET , INITAX	ZISET DSRU .25ECI . DFR ,CHLC ,CDMF	
1x2EF(150)					ITA84
(a) x	α	READ4		11437 31300 31170	ITABIC
NFAC(4)	œ	READ1		מונים מונים מפרום	
KITEMP	H				
K1 TNO (K1TEMP)					

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	SUBROUTINES WHERE WRITTEN			OTABS , 17AB7											ERACK1, ITAB3	ITAB8	17AB2	OTAB4A, OSENS , ITAB8
TABLE	SUBROUTINES WHERE USED			CCST10.ZISET , ZUSE , INITAX DSRU , UTAB5 , ZSECI , ITAB7 , READ7 , DFRR , OFR , CHLC , COSTB , DDMF , ZERHSE	DUP , COST4 , COST1 ,	DCOND . OSENS		DFPR , OSENS	OSENS , DFR	OSENS , DNRTS	OSENS , DRM	DRTS . USENS	DSRU , OSENS	DUP .OSENS	OTAB6 , ERRCK1, COST6 , ZFAIL	רככ	DIABG , COST7 , COST3 , ZNFB , DSRU , COST6 , ZFAIL , CHIC , ZTFR	01486 ,COST7 ,ZNFB , 01487 ,ERRCK1,DSRU ,
TAD.E 5 LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES 3V SUBROLTINES (CONTINUES)	SUBROUTINES WHERE ASSIGNED			COSTIO.ZISET , NSRU , ZSECI , DFPR , NFR , CHLC , ZERHSE	210													
LIFE CYC	SUBPOUTINES WHEPE READ			READ7											READ3	READB	READ2	READS
	REAL OR INTEGER	•		H	άx	-			1		4		1		-	œ	•	1
	VARIABLE NAME	K2TEMP	K2TNO(K2TEMP)	J	(1))	LDCOND	LDERV	LDFPA	LDFR	LONRIS	LDRM	LDRTS	เอรสบ	Loup	LE(NP)	LFAC(1)	LO(NS)	LRU(1)

06/25/81		LIFE CYCL	TABLE S LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES 3Y SUBROPTINES (CONTINUED)	TABLE	
VARIABLE NAME	REAL OR INTEGER	SUBPOUTINES WHEPE READ	SUBROUTINES WHERE ASSIGNED	SUBROUTIVES WHERE USED	SUBROUTINES WHERE WRITTEN
5	-			COSTIO,ZISET , DSRU . ZSECI , DFPR , DFR , CHLC , ZERMSE	
LTINO(LT)	-				
LTXREF(1)	-				
LUP(I)	α		00571	C05T1	OTAB48
LXREF(120)	н				
¥				ERRCKI, ITAB3 , WEAD3 , DXMIL , ITAB5 , ITAB4 , READ4 , COST2 , OTAB2 , READ5	ERRCK 1
MIC	α		C0ST2	OTAB1	
WIFIX(M,NP)	α	READS		COST2 , OTAB2	ITABS
MILR(3)	α	READ1		DXMIL , COST2 , 01AB2	ITABIA
MIMH(IA.M.NP)	α	READS		DXMIL , COST2 , UTAB2	17ABS
MIND(M)					
(M. W) Odin	œ	READ3		C0513	ITAB3
NIMPM(NP)	α	READ3		C0513	ITAB3
MRF	α	READ1		COST7 , OTAB7	ITABIA
N NO	α	READ1		COS17 , CTAB?	ITABIA
MSE(L)	α	READ?		DSFU , DTAB5 , ZSECI , DFFR , DFR , CHLC , CCSTB , DOMF	11AB7
MTBMI(1,4)	α	READSA		Gras6 .ERRCK10576 . ZFAIL	17AB9A
₩18C	α		COST11, INTTAX	CCST11,014838,31481 , 01483C	
WIRCI(I)	œ		COST11, INITAX	01 A 8 4 A	
MUSE	α	READI		2.05E	ITABIC

	SUBROUTINES WHERE WRITTEN	F R F F F F F F F F F F F F F F F F F F								
E TABLE	SUBROUTINES WHERE USED	CO5110, 17810A. 17489A. OT484A. Z1SETU1486. CO511, CO577U2P. DRTSU1489BU17PO. DRTSERACH. USRU. DRTSERACH. USRU. DRTSCO514 .Z1150. CC516 .OT484BZ1150. CC516 .OT484BZ1150. CC517 .DF10PTAB11. DCONDIT8100. DF48. CC517 .DF10PTAB11. DCONDIT8100. DF48. CC517 .DF10PTAB11. DCONDTAB11. DCONDTAB11. DCONDTAB11. DCONDTAB11. DCONDTAB11. DCONDTAB11. CC519 .RLARRICHRIS. IT810BTB10CTAB8. DXFRROOMFZYRSQ. ZERHBZPMCOTFR. ORMZERHSE. UXRM.		CDST10,11810A,215ET, DSRU, 25ECI,11810D, DFPR, DFR, CHLC, 17810B,17810C,2ERHSE			COSTIO.ZUSE , INITAX, OTABS , ZSECI , ITAB7 , CHLC , COSTB , DDMF	CGST10,ZISET ,0SRU , ZSECI ,0FPR ,0FR , CHLC ,ZERHSE	ERRCK1, DX:AIL , JOST2 , OTAB2	074844,0748605711, CC513,00417455 ER9CK10,RUC0516 074848,2741L .17483 . DFPR .CO571 .05M1L 17485 .CHC17484 .
TALLE S LIFE CYCLE COST "DD:L CHOSS-REFERENCE TABLE VARIABLES BY SUBROUTINES (CONTINUED)	SUBROUTINES WHERE ASSIGNED	READ98. READ10. PEAD11.					READ7			READS , PEAD3 , PEAD4 , READ5
	SUBPOUTINES WHERE READ									
	REAL OR INTEGER	-	-		ı		•	pet.		·
06/25/81	VARIABLE NAME	1 × W	'AX I RM	MXIRMI	MXKT	MXKTE	שאר	מאנד	MXM	d NYE.

	SUBROUTINES WHERE WRITTEN			ITAB4	17 A B 2				17AB2	11 A B B		ITABSS
TABLE	SUBROUTINES SUBPOUTINES SI	CDS110,014844,21SET 07486, CCS711,240SE 17482,01487,1114X, 074838,0584, COS76, 074848,2754, COS76, 074848,2754, COS76, 074848,2754, COS76, 07484,2754, COS76, 07485,2756, COS76, 07576, COS78, 07576, COS78, 0757		CCST3 11	ZNFB ,DSAU ,DFPR , I) CHLC ,ZERHB	ERRCK1	COST4 ,Z11SQ ,UFPR , DFR ,CHLC ,LOST9	ZNFB , COST4 , 21159 , DFR , CHLC	COST7 , ZNFB , JSRU , 11	ERCKI, 5346 , LIAB7 , III ERCKI, 5380 , LUIUP , EPPR , CETP , LOSIS , CHLC , COSI9 , ZIRSQ , ZEMB , DRM	DXWIL , COST2 , UTAB2	GTABGALGTARG. COSTIT. DOUGLESCALL SEND. CC.16. OTABGARLFAIL. DEAR . CC.17. CH.C ZWEO. ZITER
TABLE 5 LIFE CYCLE COST MODEL CAOSS-REFERENCE TABLE VARIABLES 3Y SUBROWTINES (CONTANDED)	SUBROUTINES WHERE ASSIGNED	READ2				ERRCK1	ZNFB	ZNFB , INITAX				
LIFE CYCLE	SUBPOUTINES WHERE READ			READ4	REA02				READ2	READ8		READ11
	REAL OR INTEGER	H	-	œ	α	-	α	α		2	н	α
06, 25/81	VARIABLE Name Name	S) Z X X	MXREF(1)	NAE (NP)	MBC(NS)	NEARYY	NFB(I.NS)	(1)047	NHB(NS)	мн1(1)	4 1 %	VITEM(I,NP)

	SUBROUTINES WHERE WRITTEN	17810A, 17810D, 178108, 17810C	07886 ,17884 ,07882 ,17885 ,17884 ,07882	;	11∧86				ITAB9A, OSENS	ITABIC
NCE TABLE	SUBROUTINES WHERE USED	C05110,215ET , LBCK1, 0580 , 25(C1 , FPR , 0FR , C4,C , LERMSE	074844.0748605111. CCS13 .02P11486 READ6 .FHRCM. USRU CCST6 .074540.7FAIL ITAB3 .READ3TAP11. READ11.DFPROS11 DXMIL ITAB5 ITAB4 .READ4 .ZPME0 READ5 .ZIFR UTAB2		OTAB4A,OTAB6 ,LOST3 , COST6 ,OTAB48,ZFAIL , COST1 ,DXMIL ,ZPMEQ , COST2 ,ZTFR , UTAB2		COSTIO,ZISET .USRU . ZSECI .READIO,DFPR . DFR .CHLC .ZERMSE	17AB4 .COST2	COST7 , ZNFB , CTAB7 , DRTS , ERRCK1, CSRU , DCOND , CHLC , ZERMB	ZIOTPQ, DSRU .UFPR .
TABLE S LIFE CYCLE COST WOOLL CROSS-REFERENCE TABLE VARIABLES 3Y SUBROUTINES (CONTINUED)	SUBROUTINES WHERE ASSIGNED								RLCOMP	
LIFE L	SUGPOUTINES WHERE READ	READIO			READ6		READ10	READ4	READ9A	READ1
	REAL OR INTEGER	-	-	•	α	1		œ	α	œ
06/25/81	VARIABLE Name	NJA(1,4)	a Z	(an)ONIan	NPLT(NP.NS)	NPXREF(1)	NRM(1)	NRMI (NP)	NATS(1)	NRUC

06/25/81		LIFE	TABLE 5 LIFE CYCLE COST WODEL CROSS-REFERENCE TABLE VARIABLES AY SUBSQUITINES	E TABLE	
VARIABLE	REA. DA Integer	S	SUBROUTINES WHERE ASSIGNED	SUBADUTIAES WHERE USED	SUBROUTINES WHERE WRITTEN
1 S S S S S S S S S S S S S S S S S S S	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		COSTIO, OTABAA, 215ET . OTABG , COSTII, 205E .	ITAB2 , CTAB7
				ZNFB ITAB2 READ2 . GOTAB7 INITAX HEAD6 . GOTAB3B, DSRU . GOSTA	
				DPIUP DEPR COSTS	
				CHLC ,COS18 ,LUST9 , DDMF ,ZYRSQ ,LERMB , ZPWEQ ,COS12 ,LTFR , ZTYPE ,OTAB3C,DRM , ZERMSE,OTAB3	
	α		ZSEC1	COSTID.DTAB5 ,2SEC1 . CHLC .COST8	
(1) (1) (1) (2) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	gε		10357	COSTIO, OTABS , 2SECL , CHIC , COSTB	
(S.M.) (N.)	u				
NSXREF(1)	ы			01486	OTABS . ITAB4
LIRAD(ND)	α	READA	50513	DPIUP , GTAB1	
90	α		2027	COSTIG, OTABBB, DETUP .	
OFMC	oc o		COST7 , INITAK	CDST10,01484A,COST7.	
OFMCA(1)	•		MATINI, VINCO	COST7 . OTAB38. UTAB3A	
OFMC8	ac ac		COST , INITAX	COST7 ,OTAB3B,UTAB3A, OTAB3C	
	œ		C0513	COST3 , OTAB38, UTAB3A. OTAB3C	
2			COST3 . INITAX	CQ513	
9210	œ		COST3 , INITAX	C05T3	
	α				

SUBROUTINES WHERE WRITTEN			ITAB18	114818	11488	ITABIA	ITABIA	ITABIA			ITAB4	ITABIC, OTABST		ITABIA	OTAB6 , ITAB3 .OTAB2			ITABB	17810A, 17810D, 178108, 17810C
SUBROUTINES WYERE USED	COST10,07AB38.CGST6 , DP1UP ,07AB1 ,07AB3A, DDMF ,07AB3C	CCST10,0TA94A,COST6 , DFR ,0TA84C	ZNFB , DSRU , CHLC	ZNFB , DSRU , DFPR	CHLC , COST9	CC5111	COST11	C05711	ZSECI	25EC1	CO572	COSTIO, 07884A, USSTII, COSTII, COSTII, COSTII, USSTII, OTABAB. 25ECI OPIUP UFPR UFR COSTII, CHLC COSTII, COMP UDMF COSTII, COMP UDMF UDMF UDMF UDMF UDMF UDMF UDMF UDMF	210199	CO513		002110			COSTIO.ZISET DSRU . ZSECI OFPR DFR . CHLC .ZEPHSE
SUBROUTINES WHERE ASSIGNED	INITAX, COST6	INITAX, COST6							ZSEC1	2SEC1			ZPMEQ			005110	CDS 7.1		
SUBPOUTINES WHERE READ			READI	READ1	READB	READI	READ1	READ1			READ4	READ1		RF101	READ3			READB	READIO
REAL OR JATEGER	α	œ	œ	œ	œ	œ	œ	α	α	œ	œ	oc .	œ	٥	œ	œ	œ	œ	α
, A41ABLE \A5ME	U5.70	ONMCA(1)	551(3)	0510	PA(!)	PALI	PALZE	PAL2D	PBDV(L)	PDDV(L)	(dN) AIGe	dn1d	Preg(I)	BIRd	PNOUN(NP.12)) DSE(1,L)	D40DC	PTNUIS(1,12)	054(1,4,3)
	NBLE REAL OR SUBPOUTINES SUBROUTINES SUBROUTINES INTEGER WHERE READ WHERE ASSIGNED WHERE USED	SUBROUTINES SUBROU	INTEGER SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBROUTINES SUBBROUTINES SUBBROUTINES SUBBROUTINES SUBBROUTINES SUBROUTINES SUBROU	NUTEGER	SUBROUTINES SUBROUTINES SUBROUTINES	SUBROUTINES SUBROUTINES SUBROUTINES	SUBROUTINES SUBROUTINES SUBROUTINES	SUBROUTINES SUBROUTINES SUBROUTINES	SUBROUTINES SUBROUTINES SUBROUTINES	Subroutines Subroutines	Subroutines Subroutines	Subroutines Subroutines Subroutines Subroutines Subroutines Subroutines Subroutines Subroutines Subroutines	Subroutines Subroutines	Subsoutines Subsoutines	Subroutines Subroutines	SEE REAL OR SUBBOUTINES SUBBOUTINES WATER LESSON WATER L	SEE REAL OR SUGBOUTINES WHEEE READ WHEE WEER WHEER WHEE WEER WHEER WHIN WHEER WHIN WHEER WHIN WHERE WHIN WHERE WHIN W	BLE REALL OR SUBBOUTINES SUBBOUTINES SUBBOUTINES 11 R INITAX,COSTG COSTIO OTABBB. COSTG. (1) R READI INITAX,COSTG COSTIO OTABBB. COSTG. (1) R READI INITAX,COSTG COSTIO OTABBB. COSTG. (1) R READI ANDIA COSTIO OTABBB. COSTG. (1) R READI COSTIO OTABBA. COSTG. (2) R READI COSTIO OTABBA. COSTG. (3) R READI COSTIO OTABBA. COSTG. (4) READI COSTIO OTABBA. COSTG. (5) COSTIO OTABBA. COSTG. (6) READI COSTIO OTABBA. COSTG. (7) COSTIO OTABBA. COSTG. (8) READI COSTIO OTABBA. COSTG. (1) R READI COSTIO OTABBA. COSTG. <tr< td=""><td> 1</td></tr<>	1

06/25/81		LIFE CY	TABLE STEEFERENCE TABLE LIFE CYCLE CDST WODEL CROSS-REFERENCE TABLE VARIABLES 38 SUBSMITINES	ACE TABLE	
. A 2. I A 81. E	REAL OR	SUBPOUTINES	SUBROUTINES WHERE ASSIGNED	SUGROUTINES WE COSED	SUBROUTINES WHERE WRITTEN
3542	INTEGER	11111111111111111111111111111111111111		COST11 01487	ITABIC
01783	w	READI		COST11,01A87	ITABIC
017728		READ1		C05111,01A87	ITABIC
Q1 Y P 2 D		READT		RLCOMP	ITABIC, OTABST
œ		REACT		002110	114818
ac b b	Œ	READI		COST7 , OTAB7 , COST6 .	17AB9A
a19(1)	α	READ9A .		ZFAIL	TARGE
	٠	READ9A	RLCOMP	RICOMP	State Same
RL(1) RM(1)	- a	READ8		DSRU DPIUP DFPR . DFR .COSTS .CHLC . DRM	03673
				60819	ITABIB
RMC	α	READ1		COST6 , DFPR	ITABSA
RMH(1)	óc ⊷	READSA	ZERMSE	COSTIO, ZISET .JSRU . ZSECI .DF.PR .JFR . CHLC .ZERHSE	
			50512	COS12	
RMICA(NP)	OC		505711	GTABSB. OPIUP , UTAB3C	
RMTRC	ac ac		INITAX, COSTS	OTAB38.COST5 .UTAB1 . OTAB3A.DNUC .UTAB3C	
RSCA(1)	æ		C0S15	OTABGA, DVP . CSTU . DFPR . DFR . CST5 . CMLC . OTABAC	
RTS(I)	Œ	REA09A	RLCOMP	COST7 , Z'' B . J 1487 . ERRCKI. DSRU . JCOND . RLCOMP.CHLC . LOST9 . DNRTS . ZFRHB	ITABGA, OSENS
;	œ	READ1		DSRU , DFPR , LFR CHLC , COST9	. 17.8818
4	. 4		OTAB7		01.487
>7784	•				

		LIFE CYCLE	TABLE 5 LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES 3V SUBROKTINES (CONTINUED)	: TABLE	
ATABLE AE	REA CR INTEGER	SUGPOUTINES WHERE READ	SUBROUTINES WHERE AS IGNED	SUBROUTINES WHERE USED	SUBROUTIMES WHERE WRITTEN
a	œ		OTAB?		OTAB7
r (NS)	α		ZTYPE	DSRU ,DFPR ,CHLC ,	
(ר)	œ		25£C1	ZSEC1	
CBC	œ		INI TAX, COSTB	OTAB38	
480	œ		INI TAX, COSTB	OTAB3B	
g	œ		INI TAK, COST8	OTAB3B, OTAB3C	
(1)00	œ		25EC1	ZSECI	
500	œ		INITAX, COSTB	OTAB38, COST8 ,UTAB3C	
CDP	α		INITAX, COSTB	OTAB38, COST8 , OTAB3C	
(1)15	œ		25£C1	OTAB4A, ZSECI	
210	α		INITAX, COST8	OTAB38, COST8 , UTAB3C	
113	œ		INI TAK, COSTB	60518	
913	œ		INI TAX, CDST8	OTAB38, COST8 , UTAB3C	
a .	œ		INITAX, COSTB	OTAB38,OTAB3C	
ar ()	α		INITAX, COSTB	DP1UP , COST8	
Jac	œ		INI TAX, COST8	DTAB3B, COSTB , UTAB3C	
CRP	α		INITAX, COSTB	CTAB38, COST8 , UTAB3C	
20	α		INITAX, COSTB	COST8 , OTAB1	
)Ev(L)	αx	READ7		ZSECI	17A87
)))	α		2SEC1	OTABS . ZSECI . COSTB	
(ווסגר)	-		READT	COSTIO, ZUSE , INITAX, DTABS , ZSECI , 11ABT , CHLC , COSTB , UDMF	
400N(L, 20)	œ	READ7			OTABS , 1TAB7
	•	1010			

LIFE CY	YCLE	RIABL	MODEL CROSS	CYCLE COST MODEL CROSS-REFE VARIABLES 34 SUBROUTINE
---------	------	-------	-------------	---

		LIFE CYCLE,	TABLE STREE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES 37 SUBROKTINES (CONTINUED)	E TABLE	
ARIABLE VANE	REAL OR INTEGER	SUBPOUTINES WHERE READ	SUBROUTINES WHERE ASSIGNED	SUBROUTINES WHERE USED	SUBROUTINES MERE WRITTEN
2£ PC	α		INITAX, COSTB	COSTB , OTAB1	
SETDC(L)	æ		COST10, INITAX	O1485	
SETYPE(L)	1	READ 7		ZUSE , ZSECI , COST8	ITA87
SPC1		READI		C05111	ITAB1C
5 p C 3	н	READ1		C05111	ITAB1C
S.R.	α	READT		COS17 , 01 AB7	ITABIA
515.2	Œ		COSTIO, INITAX	COST10.0TA838.UTA81 , 0TA83C	
51001	α		COST10.INITAX	COST10,0TAB3B,0TAB3C	
STDCR	α		COST10, INITAK	OTAB38, DPIUP .UTAB3C	
TABMHY (NS)	œ		OTAB7	01AB7	01AB7
TABMP (NS)	α		OTA87	01487	01 AB7
TCFB	œ		C0S17	C0517	
10.60	α		C0S17	C0S17	
100(1)	α		COSTIG. INITAX	01A84A	
TDC0ND(1)	α		DCOND	DCOND	OSENS
15FPR(1)	œ		DFPR	DXFPR	OSENS
1068(1)	α		DFR	DXFR	OSENS
TOWE	q		DOMF	0046	OSENS
10M1L	a r		DAMIL	DXWIL	
104875(1)	α		DNRTS	DNRTS	OSENS
dn1dSi	α		aniac		OSENS
CI MACL	œ		DRM	МяхО	CSENS
TORIS(I)	αr		DRTS	DRTS	OSENS
1008SC1	α		טאפר	DSFU	OSENS

			(CO4: INDED)		
REAL OR INTEGER	GER WHERE READ	READ	SUBROUTINES WHERE ASSIGNED	SUBROUTINES WHERE USED	SUBROUTINES WHERE WRITTEN
α			900		OSENS
~			DXFPR		OSENS
œ			DXFR		OSENS
œ			DXMIL		OSENS
α			DXRM		OSENS
α			DXCC		OSENS
œ	READ1			C0ST11	ITABIC
TERHB(L) R			INITAX, ZSECI	ZSECI	
TERHO(L)			INITAK, ZSECI	ZSECI	
TERMC(NP) R			00511	01A86	
œ			INITAX, COST!	COST: , OTAB: , DXUC	
œ			INITAX, CDST1	COST1 , OTAB1	
TFAC(NP) R	READ3			OTABG .COSTG .ZFAIL . ZTFR	17483
α			ZTFR		OSENS
THRS(NP) R	READS			C0ST3	ITAB3
œ			OTAB4A, INITAX	OTA84A	OTAB4A, RLAPRT
11961(1)	READ98			COST11,0TAB7	ITAB98
œ			27150	ZTOTPO,DSRU .COST4 . ZTISQ .DFPR .DFR	
T 15QN(1)			. afc	DFR	
α			OTA52	OTAB2	OT A B 2
α			O1A87	O1 A B 7	OTAB7
a					***************************************

06, 25/81					
		LIFE CYCLE VA	LIFE CYCLE COST WODEL CROSS-REFERENCE TABLE VARIABLES 3Y SUBROPTINES (CONTINUED)	E TABLE	
A PRIE NAME	REA OR INTEGER	SUBPOUTINES WHERE READ	SUBROUTINES WHERE ASSIGNED	SUBROUT IVES WHERE USED	SUBROUTINES WHERE WRITTEN
TNB(NS)	α	READ2		COSTIO.07884A.07886. COST7 .COST3 .LVF8 OTAB7. 078838.JSRU . COST4 .ZI1509.CIAB5. COST6 .QT8848.ZSEC1 DPIUP. OFPR .COST1 DFR .QMRL .COST5 CHC .COST8 .COST9 DDMF .ZYRSQ .ZERH8 .ZMRO .COST9 QT883C.DRM .QTAB2	11A62
TNLR	α	READ1		CD573	ITABIA
TNSE(L)	œ		C05710	C05110	
1048	α	READ1		COST11,01A87	ITABIA
1040	α	READI		COST11,07AB7	ITABIA
10100(1)	α		210199	227	O1A848
TOTT(NP)	c c		C0ST1	OUP , OSRJ , OFPR , COST1 , CHEC	
10SA	Œ		DFPR , DFR	DFPR , DFR	
Ġ;	Œ	READ1		COST7 . OTA87	ITABIA
TRAVS	α	READI		C05711	ITABIA
TRAVID	α	READ1		COST11	ITABIA
15£C	α		CDS18	01481	
TUCTOC	α		INI TAX, 25ECI	01A85 , ZSECI , LOST8	
TYP2TF	α	READI		CDS711	ITABIC
12BA	œ		C05711	COST11,07AB7	
725A	c x		CDS 711	CO5111,01A87	
8 8 0 0	α	READ1		0.1200	114818
UCTDC'I)	œ		ZSEC1	ZSECI	
UCTBEV(1)	α	READ9B		25501	17A39B

(o/ 25/81		. 1 F.E. C.	TABLE 5 LIFE CYCLE COST MODEL CROSS-REFERENCE TABLE VARIABLES 3Y SUBROUTINES (CONTINUED)	E TABLE	
3.1881.E	REAL OR INTEGER	SUBPOUTINES WHERE READ	SUBROUTINES WHERE ASSIGNED	SUBROUTINES WHERE USED	SUBROUTINES WHERE WRITTEN
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	œ	READS		DPIUP , DSRU , COST4 , DFPR , COST1 , DFR , COST5 , CHLC , DRM	OSENS , ITABB
JSE(L.NS)	α		ZUSE INITAX	DSRU ,DFPR ,DFR , CHLC ,DOMF	
USED/L)	œ		ZUSE , INITAX	DSRU , DFR , CHLC , DDMF	
	4		READSA	RLCOMP	
WEAR(1)	e oz	READS		CCS17 DSRU DFPR , CHLC	ITAB8
AFPR	nac	READ1		COST7, ZNFB, UTAB7, DSRU, COST6, DFPR, CHLC, ZERHS	ITAB1C, DTABST
0	a	READ1		OTA86 .COST6 ,ZFAIL	ITABIC, DIABST
XITEMO(I)	e ox		INITAX, DSRU , DFPR , DFR , CMLC	LCC . DFPR	
XK 1 TNO(1)					
XX2 [NO(1)					T20410 010411
XVIL	æ	READ1			1000001010V1
S n x	α	READ1		DUP .05RU .00514 . DPIUP .DFPR .CO511 . DFR .CO515 .CHLC . DRM	ITABIC, DI ABS
7850(1)	- :		ZYRSQ	ZTOTPQ, DSRU , DFR	

APPENDIX F

RLA PROGRAM FORTRAN SOURCE CODE

```
800620 115703351
COMMON /EXITXX/ EXITXX
                              INTEGER EXITXX
                              COMMON /1TERXX/ ITERXX
                              COMMON /PRNTXX/ PRNTXX
                              INTEGER PRNTXX
                              COMMON /RERDXX/ RERDXX
                              INTEGER RERDXX
                              COMMON /NERRXX/ NERRXX
                              COMMON /NERRYY/ NERRYY
                              COMMON /REDOXX/ REDOXX
                              INTEGER REDOXX
C
                     1 FORMAT(1H1//22H PROGRAM STOPS DUE TO ,14,
                         + 16H ERRORS ON INPUT)
C
С
C
C* INITIALIZE SENSITIVITY PRINT PARAMETERS
C***********************************
                              CALL INITAL
                              NERRXX=0
                              REWIND 11
                              REWIND 12
                              REWIND 13
                              CALL READ1
                              CALL READ2
                              CALL READ3
                              NERRYY=NERRXX
                     2 CONTINUE
C
С
C the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
Carrier to the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transport of the transpor
C* PRINT THE INPUT DATA VALUES.
```

```
С
                                        CALL ITAB1
                                        CALL ITAB2
                                        CALL ZTRAN
C
C
 C
 C* STOP IF ANY ERRORS WERE FOUND ON INPUT.
Cartering to the factoring to the factor
C
                                        NERRXX=NERRYY
                                        IF(NERRXX.EQ.0) GO TO 4
                                                                        WRITE(7,1)NERRXX
                                                      STOP
                           4 CONTINUE
С
C
С
C to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of 
C* LCC CALCULATIONS
С
                                        CALL ZISINO
                                        CALL INITAX
                                        CALL STEPO
                                        CALL STEP1
                                        CALL STEP2
                                        CALL STEP3
                                        CALL STEP4
 С
  С
  С
  C* PRINT OUTPUT TABLES AT TERMINAL AND/OR OFFLINE PRINTER
  C<del>uted to the triangles to be triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles to the triangles </del>
  С
                                        CALL OUT9A
                                        CALL OTAB1
  C
  C
  C
```

888 CONTINUE
C 999 STOP
C END

SUBROUTINE READ1

```
C
                                                 800620 115546520
C* READS THE LRU/SRU CROSS REFERENCE DATA
C* FILE FROM CHANNEL 11
COMMON /IL/ IL
     COMMON /ILINO/ ILINO(120)
     COMMON /ISRU/ ISRU(120,30)
     COMMON /MXIL/ MXIL
     COMMON /NDS/ NDS(120)
     COMMON /QPA/ QPA(120,30)
     COMMON /NERRXX/ NERRXX
     COMMON /PRNTXX/ PRNTXX
     INTEGER PRNTXX
     DATA XXSTAR/1H*/
   1 FORMAT(A1, I3, I2, 14(I3, F2.0))
   2 FORMAT(A1,5X,14(I3,F2.0))
   3 FORMAT(A1)
   4 FORMAT(/49H UNIT 11 ERROR: END OF FILE CARD NOT FOUND AFTER/
    +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
C
     MXIL=0
     DO 220 IXXX1=1,120
       READ(11, 1) XXCOL1, IL, NDS(IL), (ISRU(IL, K1), QPA(IL, K1), K1=1, 14)
       IF(XXCOL1.EQ.XXSTAR) RETURN
       MXIL=IXXX1
       ILINO(IXXX1)=IL
       J2 = 14
       J3=14
 211
        CONTINUF
        IF(.NOT.(NDS(IL).GT.J3.AND.NDS(IL).LE.30)) GO TO 210
         J2=J3+1
         J3=J2+13
         READ(11, 2) XXCOL, (ISRU(IL, K1), QPA(IL, K1), K1=J2, J3)
         IF(XXCOL.NE.XXSTAR) GO TO 211
 210 CONTINUE
 220 CONTINUE
```

READ(11, 3) XXCOL1 IF(XXCOL1.EQ.XXSTAR) RETURN NERRXX=NERRXX+1 WRITE(7,4)

С

RETURN END

```
SUBROUTINE READ2
C
                                                                                                                                                              800620 115551971
China in the transmission in the interior in the interior in the transmission in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior in the interior 
C* READS THE ITEM MAINTENANCE DATA FILE
C* FROM CHANNEL 19
COMMON /BCMH/ BCMH(150)
                COMMON /BMH/ BMH(150)
                COMMON /COND/ COND(150)
                COMMON /DMH/ DMH(150)
                COMMON /FPR/ FPR(150)
                COMMON /I/ I
                COMMON /INO/ INO(150)
                COMMON / IPCF / IPCF (150)
                REAL IPCF
                COMMON /LRU/ LRU(150)
                COMMON /MTBMI/ MTBMI(150,4)
                REAL MTBMI
                COMMON /MXI/ MXI
                COMMON /NRTS/ NRTS(150)
                 REAL NRTS
                COMMON /RIP/ RIP(150)
                COMMON /RL/ RL(150)
                 INTEGER RL
                 COMMON /RMH/ RMH(150)
                 COMMON /RTS/ RTS(150)
                COMMON /NERRXX/ NERRXX
                COMMON /PRNTXX/ PRNTXX
                 INTEGER PRNTXX
                DATA XXSTAR/1H*/
           1 FORMAT(A1, I3, 4F8.0, F4.3, F3.2, F5.2, 3F4.3, 4F4.2, I1)
           2 FORMAT(A1)
           3 FORMAT(/49H UNIT 13 ERROR: END OF FILE CARD NOT FOUND AFTER/
              +17X,37HMAXIMUM NUMBER OF CARDS WERE READ IN.)
С
C
                MXI=0
                DO 210 IXXX1=1,150
                      LRU(I)=-1
                      READ(13, 1) XXCOL1,I, (MTBMI(I,K1),K1=1,4), FPR(I), RIP(I), IPCF(I),
                            RTS(I), NRTS(I), COND(I), RMH(I), BCMH(I), BMH(I), DMH(I), RL(I)
                       IF(XXCOL1.EQ.XXSTAR) RETURN
                       MXI=IXXX1
```

INO(IXXX1)=I

210 CONTINUE

С

READ(13, 2) XXCOL1 IF(XXCOL1.EQ.XXSTAR) RETURN NERRXX=NERRXX+1 WRITE(7,3)

С

RETURN END

```
SUBROUTINE READ3
C
                                                                                                                                                                                                                                                                                                                                                               800620 115554898
Country in the first of the first country in the first country in the first of the first of the first country in the first of the first country in the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of t
                    READS THE TIAC(1,6) FILE
C* FROM CHANNEL 12
Christian in the interpretation of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract
С
                                     COMMON / DUM/ DUM
                                      INTEGER DUM
                                     COMMON /DUMM/ DUMM
                                      INTEGER DUMM
                                     COMMON /I/ I
                                     COMMON /INO/ INO(150)
                                     COMMON /MXD/ MXD
                                     COMMON /MXDD/ MXDD
                                     COMMON /MXI/ MXI
                                     COMMON /TIAC/ TIAC(150,6)
                                     INTEGER FINISH
                                     INTEGER START
                                     INTEGER XI
                         1 FORMAT(I3)
                         2 FORMAT(6(I3,1X,F8.1,1X))
                         3 FORMAT(A1)
                                    MXDD=0
                                     DO 230 DUMM=1,6
                                                  READ(12, 1) XI
                                                 MXDD=DUMM
                                                 MXD=0
                                                  DO 220 DUM=1,XI,6
                                                              START=DUM
                                                              FINISH=DUM+5
                                                               IF(.NOT.(FINISH.GT.XI)) GO TO 210
                                                                           FINISH=XI
             210
                                                              CONTINUE
                                                              READ(12, 2) (INO(K1), TIAC(INO(K1), DUMM), K1=START, FINISH)
             220
                                                 CONTINUE
                                                  READ(12, 3) XXSIGN
                                                 MXDD=DUMM
             230 CONTINUE
C
                                     RETURN
                                     END
```

SUBROUTINE ITAB1

```
С
                                                                                                                                                                                                 800620 115556296
Citical and the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the co
C* LRU/SRU CROSS REFERENCE DATA
Citat the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand for the stand 
C
                     COMMON / PRNTXX/ PRNTXX
                     INTEGER PRNTXX
                     COMMON /FULLXX/ FULLXX
                     INTEGER FULLXX
                     COMMON /IL/ IL
                     COMMON /ILINO/ ILINO(120)
                     COMMON /ISRU/ ISRU(120,30)
                     COMMON /MXIL/ MXIL
                     COMMON /NDS/ NDS(120)
                     COMMON /QPA/QPA(120,30)
                     COMMON /XXCOL1/ XXCOL1
                     DATA XXSTAR/1H*/
               1 FORMAT(1H1/30X,59HINPUT TABLE 1: LRU/SRU CROSS REFERENCE DATA (FR
                 +OM FILE 8B))
              2 FORMAT(59X,11H(CONTINUED)//)
                                                                                                                                   SRU ,3X,12HSRU
                                                                                                                                                                                                    SRU ,3X,12HSRU
               3 FORMAT(//9X,4H#SRU,4X,12HSRU
                                                                                                  SRU ,3X,12HSRU
                                  SRU ,3X,12HSRU
                                                                                                                                                                   SRU ,3X,12HSRU
                 +,3X,12HSRU
                                                                    SRU /1X,3HLRU,5X,5HTYPES,3X,12HINDEX QUAN-,3X,12HI
                 +NDEX QUAN-,3X,12HINDEX QUAN-,3X,12HINDEX QUAN-,3X,12HINDEX QUA
                 +N-,3X,12HINDEX QUAN-,3X,12HINDEX QUAN-/1X,5HINDEX,3X,6HIN LRU,2X
                                                                                                                            TITY ,3X,12HNO.
                                                          TITY ,3X,12HNO.
                                                                                                                                                                                             TITY ,3X,12HNO.
                 + TITY ,3X,12HNO.
                                                                                             TITY ,3X,12HNO.
                                                                                                                                                              TITY ,3X,11HNO.
                 +,4H(IL),4X,5H(NDS),3X,12H(ISRU) (QPA),3X,12H(ISRU) (QPA),3X,12H(IS
                 +RU) (QPA),3X,12H(ISRU) (QPA),3X,12H(ISRU) (QPA),3X,12H(ISRU) (QPA)
                 +,3X,12H(ISRU) (QPA)//)
               4 FORMAT(2X,13,5X,13,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13
                 +,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0/18X,13,3X,F4.0,
                 +5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F
                 +4.0,5X,13,3X,F4.0
               5 FORMAT(18X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13
                 +,3X,F4.0,5X,I3,3X,F4.0,5X,I3,3X,F4.0,5X,I3,3X,F4.0/18X,I3,3X,F4.0,
                 +5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F4.0,5X,13,3X,F
                 +4.0,5X,13,3X,F4.0
C
С
C
C
                     IPAGE=40
                     IFLAG=1
                     DO 240 IXXX1=1, MXIL
                            IL=ILINO(IXXX1)
```

```
IF(.NOT.(IPAGE.EQ.40)) GO TO 220
          WRITE( 7, 1)
           IPAGE=1
           IF(.NOT.(IFLAG.NE.1)) GO TO 210
            WRITE( 7, 2)
  210
          CONTINUE
          WRITE( 7, 3)
  220
        CONTINUE
        WRITE( 7, 4) IL, NDS(IL), (ISRU(IL, K1), QPA(IL, K1), K1=1, 14)
        J2=14
        J3=14
C
  241
        CONTINUE
        IF(.NOT.(NDS(IL).GT.J3.AND.NDS(IL).LE.30)) GO TO 230
          J2=J3+1
          J3=J2+13
          WRITE (7, 5) (ISRU(IL, K1), QPA(IL, K1), K1=J2, J3)
            IF(XXCOL.NE.XXSTAR) GO TO 241
  230
        CONTINUE
        IFLAG=0
        IPAGE=IPAGE+1
  240 CONTINUE
С
      RETURN
      END
```

SUBROUTINE ITAB2

```
800620 115602424
C
Contract and refer to the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the cont
C* PRINTS ITEM REPAIR-LEVEL-DEVELOPMENT COSTS
С
                   COMMON / PRNTXX/ PRNTXX
                   INTEGER PRNTXX
                   COMMON /FULLXX/ FULLXX
                   INTEGER FULLXX
                   COMMON /I/ I
                  COMMON /INO/ INO(150)
                   COMMON /MNI/ MXI
                   COMMON /TIAC/ TIAC(150,6)
             1 FORMAT(1H1/38X,50HINPUT TABLE 2: TOTAL ITEM SUPPORT COST - TIAC(1,
                +R)/48X,31H(COSTS IN THOUSANDS OF DOLLARS))
             2 FORMAT(58X,11H(CONTINUED)//)
             3 FORMAT(//49X,31HGLOBAL MAINTENANCE STRATEGY - R/26X,4HITEM,7X,68H-
               +-/26X,5H1NDEX,9X,1H1,11X,1H2,11X,1H3,11X,1H4,11X,1H5,11X,1H6//)
             4 FORMAT(27X, I3, 7X, 6(F8.1, 4X))
С
С
С
С
                   TPAGE=40
                   1FLAG=1
                   DO 230 IXXX1≈1,MXI
                         I = INO \cdot IXXXI)
                         IF(.NOT.(IFAGE.EQ.40)) GO TO 220
                               WRITE( 7, 1)
                               IPAGE=1
                               1F(.NOT.(IFLAG.NE.1)) GO TO 210
                                     WRITE( 7, 2)
       210
                               CONTINUE
                               WRITE( 7, 3)
                        CONTINUE
                        WRITE (-7, -4) I, (TIAC(1, K1), K1=1, \epsilon)
                         IFLAG=0
                         IPAGE=IPAGE+1
      230 CONTINUE
С
                   RETURN
                   END
```

SUBROUTINE ZTRAN

```
C
                                                                                                                                                         800620 115614729
Children in the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of th
        CALCULATES NTL(IS), TQPA, AND LRU(I)
С
                 COMMON /PRNTXX/ PRNTXX
                 INTEGER PRNTXX
                 COMMON /IL/ IL
                 COMMON /ILINO/ ILINO(120)
                 COMMON /IS/ IS
                 COMMON /ISRU/ ISRU(120,30)
                 COMMON /ISXREF/ ISXREF(150)
                 COMMON /LRU/ LRU(150)
                 COMMON /MXIL/ MXIL
                 COMMON /MXIS/ MXIS
                 COMMON /NDL/ NDL(150)
                 COMMON /NDS/ NDS(120)
                 COMMON /NERRYY/ NERRYY
                 COMMON /NTL/ NTL(150)
                 COMMON /QPA/ QPA(120,30)
                 COMMON /TQPA/ TQPA(150,120)
                 INTEGER TQPA
           1 FORMAT(//1X,17H*** ERROR - ITEM ,13,39H IS LISTED AS BOTH AN LRU A
              +ND AN SRU IN, 16H THE QPA MATRIX.)
           2 FORMAT(//1X,17H*** ERROR - ITEM ,13,39H IS LISTED AS BOTH AN LRU A
              +ND AN SRU IN,16H THE QPA MATRIX.)
С
                 DO 270 IXXX1=1, MXIL
                      IL=ILINO(IXXXI)
                      IF(.NOT.(LRU(IL).EQ.0)) GO TO 210
                      WRITE(7,1)IL
                           NERRYY=NERRYY+1
                      CONTINUE
     210
                      IF(.NOT.(LRU(iL).EQ.-1)) GO TO 220
                            LRU(IL)=1
     220
                      CONTINUE
C.....THESE 4 STMTS IMPLEMENT THE POINTER MATRIX
                      NXXX1=NDS(IL)
                      IF(NXXX1.EQ.0) GO TO 260
                      DO 250 JXXX1=1,NXXX1
                            IS=ISRU(IL,JXXX1)
                            IF(.NOT.(LRU(IS).EQ.1)) GO TO 230
                           WRITE(7,2)IS
                                 NERRYY=NERRYY+1
```

```
230
        CONTINUE
        IF(.NOT.(LRU(IS).EQ.-1)) GO TO 240
          LRU(IS)=0
240
        CONTINUE
        NTL(IS)=NTL(IS)+QPA(IL,JXXX1)
        NDL(IS)=NDL(IS)+1
        TQPA(IS, NDL(IS))=IL
250
      CONTINUE
260
      CONTINUE
270 CONTINUE
    RETURN
   END
```

```
SUBROUTINE ZISINO
С
                                            800620 115622448
<del>C********************************</del>
C* CALCULATES ISINO(150)
C
    COMMON /I/ I
    COMMON /INO/ INO(150)
    COMMON /ISINO/ ISINO(150)
    COMMON /LRU/ LRU(150)
    COMMON /MXI/ MXI
    COMMON /MXIS/ MXIS
C
    MXIS=0
    DO 220 IXXX1=1,MXI
      I=INO(IXXX1)
      IF(.NOT.(LRU(I).EQ.0)) GO TO 210
       MXIS=MXIS+1
        ISINO(MXIS)=I
 210
      CONTINUE
 220 CONTINUE
    RETURN
    END
```

```
SUBROUTINE INITAX
С
                                                                                                                                                                                               800620 115622777
Current properties to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state
C* INITIALIZES
COMMON /AIAC/ AIAC(150,3)
                    COMMON /I/ I
                    COMMON /IL/ IL
                    COMMON /ILINO/ ILINO(120)
                    COMMON /INO/ INO(150)
                    COMMON /IS/ IS
                    COMMON /ISINO/ ISINO(150)
                    COMMON /J/ J
                    COMMON /LCRL/ LCRL(150)
                    COMMON /LCRLS/ LCRLS(120,150)
                    COMMON /LCRS/ LCRS(150,3)
                    COMMON /MXI/ MXI
                    COMMON /MXIL/ MXIL
                    COMMON /MXIS/ MXIS
                    COMMON /MXJ/ MXJ
                    COMMON /TLAC/ TLAC(120)
                    COMMON /TSAC/ TSAC(120,3)
C
С
                    DO 230 IXXX1=1,MXIL
                           IL=ILINO(IXXX1)
                           TLAC(IL)=0.
                           DO 210 IXXX2=1,MXIS
                                  IS=ISINO(IXXX2)
                                  LCRLS(IL, IS)=0
       210
                           CONTINUE
                           DO 220 J=1,MXJ
                                 TSAC(IL,J)=0.
       220
                           CONTINUE
       230 CONTINUE
                    DO 250 IXXX1=!,MXIS
                           IS=ISINO(IXXX1)
                           DO 240 J=1,MXJ
                                  AIAC(IS,J)=0.
                                  LCRS(IS,J)=0
      240
                          CONTINUE
```

250 CONTINUE

SUBROUTINE STEPO

```
С
                                                                                                                                                                                             800620 115623469
Coproperate the effective parties and a proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper proper prop
C* SETS SOME LCRL'S
COMMON /COND/ COND(150)
                    COMMON /IL/ IL
                    COMMON /ILINO/ ILINO(120)
                    COMMON /IS/ IS
                    COMMON /ISINO/ ISINO(150)
                    COMMON /ISRU/ ISRU(120,30)
                    COMMON /ISXREF/ ISXREF(150)
                    COMMON /LCRL/ LCRL(150)
                    COMMON /MXIL/ MXIL
                    COMMON /NXIS/ MXIS
                    COMMON /NDS/ NDS(120)
С
                    DO 240 IXXX1=1,MXIL
                           IL=ILINO(IXXX1)
                           IF(.NOT.(COND(IL).EQ.1)) GO TO 230
                                 LCRL(IL)=3
C.....THESE 4 STMTS IMPLEMENT THE POINTER MATRIX
                                 NXXX1=NDS(IL)
                                  IF(NXXX1.EQ.0) GO TO 220
                                  DO 210 JXXX1=1,NXXX1
                                        IS=ISRU(IL,JXXX1)
                                        LCRL(IS)=3
       210
                                 CONTINUE
       220
                                 CONTINUE
       230
                          CONTINUE
       240 CONTINUE
                    DO 260 \text{ IXXX} 1=1, \text{MXIS}
                            IS=ISINO(IXXX1)
                            IF(.NOT.(COND(IS).EQ.1)) GO TO 250
                                  LCRL(IS)=3
                           CONTINUE
       250
       260 CONTINUE
C
                     RETURN
                     END
```

```
SUBROUTINE STEP1
                                                                                                                                                                                                                                                                                                                           800620 115627248
С
Cape all marks the service and the service and the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are the service are
C* CALCULATES TSAC(IS,J) AND LCRS(IS,J)
Constitution with the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the distribution of the dist
C
                                  COMMON / DUM/ DUM
                                  INTEGER DUM
                                  COMMON /IS/ IS
                                  COMMON /ISINO/ ISINO(150)
                                 COMMON /LCRS/ LCRS(150,3)
                                  COMMON /LRU/ LRU(150)
                                  COMMON /MXD/ MXD
                                  COMMON /MXIS/ MXIS
                                  COMMON /TIAC/ TIAC(150,6)
                                  COMMON /TSAC/ TSAC(120,3)
С
С
                                  DO 260 IXXX1=1,MXIS
                                              IS=ISINO(IXXX1)
                                              TSAC(IS,1)=AMINI(TIAC(IS,1),TIAC(IS,2),TIAC(IS,3))
                                              TSAC(IS,2)=AMIN1(TIAC(IS,4),TIAC(IS,5))
                                              TSAC(IS,3)=TIAC(IS,6)
                                              IF(.NOT.(LRU(IS).EQ.0)) GO TO 250
                                                        DO 220 DUM=1,3
                                                                     IF(.NOT.(TIAC(IS,DUM).EQ.TSAC(IS,1))) GO TO 210
                                                                               LCRS(IS,1)=DUM
             210
                                                                    CONTINUE
             220
                                                        CONTINUE
                                                         DO 240 DUM=4.5
                                                                     IF(.NOT.(TIAC(IS,DUM).EQ.TSAC(IS,2))) GO TO 230
                                                                               LCRS(IS,2)=DUM
             230
                                                                     CONTINUE
             240
                                                         CONTINUE
                                                         LCRS(IS,3)=6
             250
                                              CONTINUE
             260 CONTINUE
  C
                                   RETURN
```

END

SUBROUTINE STEP2

```
800620 115632728
Cut a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place of a place
C* CALCULATES TSAC(IL, J) AND TLAC(IL)
Cultural and the first productive of the contractive                              COMMON /IL/ IL
                             COMMON /ILINO/ ILINO(120)
                             COMMON /1S/ IS
                             COMMON /ISRU/ ISRU(120,30)
                              COMMON /ISXREF/ ISXREF(150)
                             COMMON /J/ J
                             COMMON /LCRS/ LCRS(150,3)
                             COMMON /MXIL/ MXIL
                              COMMON /MXIS/ MXIS
                              COMMON /MXJ/ MXJ
                              COMMON /NDS/ NDS(120)
                              COMMON /NTL/ NTL(150)
                             COMMON /QPA/ QPA(120,30)
                             COMMON /TLAC/ TLAC(120)
                             COMMON /TSAC/ TSAC(120,3)
                             COMMON /TIAC/ TIAC(150,6)
С
                              DO 240 J=1,MXJ
                                       DO 230 IXXX2=1,MXIL
                                                 IL=ILINO(IXXX2)
 C.....THESE 4 STMTS IMPLEMENT THE POINTER MATRIX
                                                NXXX1=NDS(IL)
                                                 IF(NXXX1.EQ.0) GO TO 220
                                                 DO 210 JXXX1=1,NXXX1
                                                           IS=ISRU(IL, JXXX1)
                                                           TSAC(IL,J) = TSAC(IL,J) + (TSAC(IS,J) * QPA(IL,JXXX1) / NTL(IS))
                                                                     +(TIAC(IL,LCRS(IS,J))/NDS(IL))
          210
                                                 CONTINUE
                                                 GO TO 230
                                                 CONTINUE
          220
                                             IF(J.EQ.1) K1=1
                                             IF(J.NE.1) K1=2*J
                                            TSAC(IL,J)=TIAC(IL,K1)
          230
                                       CONTINUE
           240 CONTINUE
                              DO 250 IXXX1=1,MXIL
                                        IL=ILINO(IXXX1)
                                       TLAC(IL)=AMIN1(TSAC(IL,1),TSAC(IL,2),TSAC(IL,3))
          250 CONTINUE
C
                              RETURN
                              END
```

SUBROUTINE STEP3

```
800620 115636632
C******************************
C* CALCULATES LCRL(IL) AND LCRS(IL, IS)
C
     COMMON /IL/ IL
     COMMON /ILINO/ ILINO(120)
     COMMON /IS/ IS
     COMMON /ISING/ ISING(150)
     COMMON /ISRU/ ISRU(120,30)
     COMMON /J/ J
     COMMON /LCRL/ LCRL(150)
     COMMON /LCRLS/ LCRLS(120,150)
     COMMON /LCRS/ LCRS(150,3)
     COMMON /MXIL/ MXIL
     COMMON /MXIS/ MXIS
     COMMON /MXJ/ MXJ
     COMMON /NDS/ NDS(120)
     COMMON /TLAC/ TLAC(120)
     COMMON /TSAC/ TSAC(120,3)
С
C
     DO 230 IXXX1=1,MXIL
       IL=ILINO(IXXX1)
       DO 220 J=1,MXJ
         IF(.NOT.((TSAC(IL,J).EQ.TLAC(IL)).AND.(LCRL(IL).EQ.
           0))) GO TO 210
           LCRL(IL)=J
 210
         CONTINUE
 220
       CONTINUE
 230 CONTINUE
     DO 280 IXXX1=1,MXIL
       IL=ILINO(IXXX1)
C..... THESE 4 STATEMENTS IMPLEMENT THE POINTER MATRIX
       NXXX1=NDS(IL)
       IF(NXXX1.EQ.0) GO TO 275
       DO 270 IXXX2=1,NXXX1
         IS=ISRU(IL, IXXX2)
         IF(.NOT.(LCRS(IS,LCRL(IL)).EQ.1)) GO TO 240
           LCRLS(IL, IS)=1
  240
         CONTINUE
         IF(.NOT.((LCRS(IS,LCRL(IL)).EQ.3).OR.(LCRS(IS,LCRL(IL)).EQ.
           5).OR.(LCRS(IS,LCRL(IL)).EQ.6))) GO TO 260
           LCRLS(IL,IS)=3
  260
         CONTINUE
```

SUBROUTINE STEP4

```
C
                                                                                                                                                                        800620 115640822
C* CALCULATES LCRL(I)
Current in the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the interior of the
                   COMMON /AIAC/ AIAC(150,3)
                   COMMON / DUM/ DUM
                   INTEGER DUM
                   COMMON /IL/ IL
                   COMMON /ILINO/ ILINO(120)
                   COMMON /ILXREF/ ILXREF(120)
                  COMMON /IS/ IS
                  COMMON /ISINO/ ISINO(150)
                  COMMON /ISRU/ ISRU(120,30)
                  COMMON /ISXREF/ ISXREF(150)
                  COMMON /LCRL/ LCRL(150)
                  COMMON /LCRLS/ LCRLS(120,150)
                  COMMON /MXD/ MXD
                  COMMON /MXIL/ MXIL
                  COMMON /MXIS/ MXIS
                  COMMON /NDL/ NDL(150)
                  COMMON /NDS/ NDS(120)
                  COMMON /NTL/ NTL(150)
                  COMMON /QPA/ QPA(120,30)
                  COMMON /TIAC/ TIAC(150,6)
                  COMMON /TQPA/ TQPA(150,120)
                   INTEGER TOPA
                   INTEGER COUNT
                   INTEGER R2
                  INTEGER TEST1
                  INTEGER TESTIA
                  INTEGER TEST1B
                   INTEGER TEST2
                   INTEGER TEST3
                  INTEGER TEST4
                   INTEGER TEMP
C
                  DO 250 DUM=2.3
                        DO 240 IXXX2=1,MXIL
                              IL=ILINO(IXXX2)
                              R2=DUM
                              IF(.NOT.(LCRL(IL).EQ.2)) GO TO 210
                                    R2=R2+2
                              CONTINUE
      210
C.....THESE 4 STMTS IMPLEMENT THE POINTER MATRIX
                              NXXX1=NDS(IL)
```

```
IF(NXXX1.EQ.0) GO TO 230
          DO 220 JXXX1=1,NXXX1
            IS=ISRU(IL, JXXX1)
            AIAC(IS, DUM)=AIAC(IS, DUM)+TIAC(IS, R2)*QPA(IL, JXXX1)/NTL(IS)
  220
          CONTINUE
  230
          CONTINUE
  240
        CONTINUE
  250 CONTINUE
      DO 430 IXXX1=1,MXIS
      TEST1=0
      TEST1A=1
      TEST1B=1
      TEST2=0
      TEST3=0
      TEST4=0
        IS=ISINO(IXXX1)
        COUNT=0
        IF(.NOT.(NDL(IS).GT.1)) GO TO 310
          TEST1A=0
C.....THESE 4 STMTS IMPLEMENT THE POINTER MATRIX
          NXXX1=NTL(IS)
          IF(NXXX1.EQ.0) GO TO 300
          DO 290 JXXX1=1,NXXX1
            IL=TQPA(IS,JXXX1)
            COUNT=COUNT+1
            IF(.NOT.(COUNT.EQ.1)) GO TO 260
              TEMP=LCRLS(IL, IS)
  260
            CONTINUE
            IF(.NOT.((COUNT.GT.1).AND.(TEST1B.EQ.1))) GO TO 280
              IF(.NOT.(LCRLS(IL,IS).NE.TEMP)) GO TO 270
                TEST1B=0
  270
              CONTINUE
              TEMP=LCRLS(IL, IS)
  280
            CONTINUE
  290
          CONTINUE
  300
          CONTINUE
  310
        CONTINUE
        IF(.NOT.(NDL(IS).EQ.1)) GO TO 311
          IL=TQPA(IS,1)
          TEMP=LCRLS(IL, IS)
  311
        CONTINUE
        IF(.NOT.((TEST1A.EQ.1).OR.(TEST1B.EQ.1))) GO TO 320
          TEST1=1
  320
        CONTINUE
        IF(.NOT.((TEST1A.EQ.0).AND.(TEST1B.EQ.0))) GO TO 360
C.....THESE 4 STMTS IMPLEMENT THE POINTER MATRIX
          NXXX1=NTL(IS)
```

```
IF(NXXX1.EQ.0) GO TO 350
          DO 340 JXXX1=1,NXXX1
            IL≈TQPA(IS,JXXX1)
            IF(.NOT.(LCRL(IL).EQ.3)) GO TO 330
              TEST2=1
  330
            CONTINUE
  340
          CONTINUE
  350
          CONTINUE
        CONTINUE
  360
        IF(.NOT.(((TEST1A.EQ.O).AND.(TEST1B.EQ.O)).AND.(TEST2.EQ.
          0))) GO TO 390
          IF(.NOT.(AIAC(IS,3).LE.AIAC(IS,2))) GO TO 370
            TEST3=1
  370
          CONTINUE
          IF(.NOT.(TEST3.EQ.0)) GO TO 380
            TEST4=1
  380
          CONTINUE
  390
        CONTINUE
        IF(.NOT.((TEST1.EQ.1).AND.(LCRL(IS).EQ.0))) GO TO 400
          LCRL(IS)=TEMP
  400
        CONTINUE
        IF(.NOT.(((TEST2.EQ.1).OR.(TEST3.EQ.1)).AND.(LCRL(IS).EQ.
          0))) GO TO 410
          LCRL(IS)=3
  410
        CONTINUE
        IF(.NOT.((TEST4.EQ.1).AND.(LCRL(IS).EQ.0))) GO TO 420
          LCRL(IS)=2
  420
        CONTINUE
  430 CONTINUE
С
      RETURN
      END
```

SUBROUTINE OUT9A

```
С
                                                                                                                                                                                                                                                                                                             800620 115652880
Cultural and the first the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of 
C* WRITES THE ITEM MAINTENANCE DATA FILE
C* TO CHANNEL 14
Considerate the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
С
                                COMMON /PRNTXX/ PRNTXX
                                 INTEGER PRNTXX
                                COMMON /FULLXX/ FULLXX
                                 INTEGER FULLXX
                                COMMON /BCMH/ BCMH(150)
                                COMMON /BMH/ BMH(150)
                                COMMON /COND/ COND(150)
                                COMMON /DMH/ DMH(150)
                                COMMON /FPR/ FPR(150)
                                 COMMON /I/ I
                                 COMMON /INO/ INO(150)
                                 COMMON / IPCF/ IPCF(150)
                                 REAL IPCF
                                 COMMON /LCRL/ LCRL(150)
                                 COMMON /MTBMI/ MTBMI(150,4)
                                 REAL MTBMI
                                 COMMON /MXI/ MXI
                                 COMMON /NRTS/ NRTS(150)
                                 REAL NRTS
                                 COMMON /RIP/ RIP(150)
                                 COMMON /RMH/ RMH(150)
                                 COMMON /RTS/ RTS(150)
                       1 FORMAT(1H , I3, 418, I4, I3, I5, 3I4, 4I4, I1)
                      2 FORMAT(1H*)
С
С
                                 DO 210 IXXX1=1,MXI
                                            I=INO(IXXX1)
                                            I1=MTBMI(I,1)
                                            I2=MTBMI(I,2)
                                            I3=MTBMI(I,3)
                                            I4=MTBMI(I,4)
                                            15=INT(FPR(I)*1000+.99)
                                            16=INT(RIP(I)*100+.99)
                                            17 = INT(IPCF(I) * 100 + .99)
                                            18=INT(RTS(I)*1000+.99)
                                            19=INT(NRTS(1)*1000+.99)
```

I10=INT(COND(I)*1000+.99)

```
SUBROUTINE OTAB1
```

```
800620 115655511
C* REPAIR LEVEL ANALYSIS
Construction for the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
С
                COMMON /PRNTXX/ PRNTXX
                 INTEGER PRNTXX
                COMMON /FULLXX/ FULLXX
                 INTEGER FULLXX
                COMMON /I/ I
                COMMON /INO/ INO(150)
                COMMON /LCRL/ LCRL(150)
                COMMON /LRU/ LRU(150)
                COMMON /MXI/ MXI
                COMMON /RL/ RL(150)
                 INTEGER RL
                DATA XXBL/1H /
                DATA XXSTAR/1H*/
           1 FORMAT(1H1/46X,37HOUTPUT TABLE 1: REPAIR LEVEL ANALYSIS)
           2 FORMAT(59X,11H(CONTINUED))
           3 FORMAT(//40X,7HLRU (1),9X,17HREPAIR LEVEL - RL,10X,7HRESULTS/29X,4
              +HITEM, 7X, 2HOR, 11X, 24H-----, 6X, 10HDIFF. FROM/29X
              +,5HINDEX,6X,7HSRU (0),6X,4HBASE,4X,5HDEPOT,4X,7HDISCARD,6X,16HCONT
              +RACTOR INPUT/30X, 3H(I), 20X, 3H(1), 6X, 3H(2), 7X, 3H(3))
           4 FORMAT(30X, I3, 9X, I1, 11X, A1, 8X, A1, 9X, A1, 16X, A1)
С
С
С
                 IPAGE=40
                 IFLAG=1
                XXR≈XXBL
                XXB≃XXBL
                 XXF=XXBL
                 XXD≃XXBL
                 DO 270 IXXX1=1,MXI
                      I=INO(IXXX1)
                      IF(.NOT.(RL(I).NE.LCRL(I))) GO TO 210
                           XXR≈XXSTAR
      210
                      CONTINUE
                      IF(.NOT.(LCRL(I).EQ.1)) GO TO 220
                           XXB=XXSTAR
                      CONTINUE
      220
                      IF(.NOT.(LCRL(I).EQ.2)) GO TO 230
                           XXD≈XXSTAR
      230
                      CONTINUE
```

```
IF(.NOT.(LCRL(I).EQ.3)) GO TO 240
          XXF=XXSTAR
 240
       CONTINUE
        IF(.NOT.(IPAGE.EQ.40)) GO TO 260
         WRITE( 7, 1)
          IPAGE=1
          IF(.NOT.(IFLAG.NE.1)) GO TO 250
            WRITE( 7, 2)
 250
          CONTINUE
          WRITE( 7, 3)
 260
        CONTINUE
       WRITE( 7, 4) I,LRU(I),XXB,XXD.XXF,XXR
        IFLAG≈0
        IPAGE=IPAGE+1
       XXR=XXBL
       XXB=XXBL
       XXF=XXBL
        XXD=XXBL
  270 CONTINUE
С
      RETURN
     END
```

INTEGER TQPA

NTABXX=0 NERRXX=0

C

С

800620 115702567

329

```
10 DUMM=1,6
        DINO(DUMM)=DUMM
   10 CONTINUE
С
      MXI = 150
      MXJ=3
      MXD=6
      MXIL=120
      MXIS=150
      MXDD=6
С
            30 DUM=1,6
      DO
        DUINO(DUM)=DUM
   30 CONTINUE
C
      DO
             40 IXXX1=1,1
         DXREF(IXXX1)=IXXX1
         DIXREF(IXXX1)=IXXX1
         JXREF(IXXX1)=IXXX1
   40 CONTINUE
С
             50 I=1,150
       DO
         INO(I)=I
    50 CONTINUE
С
             60 IL=1,120
       DO
         NDS(IL)=0
               60 IXXX=1,30
           ISRU(IL, IXXX)=0
           QPA(IL,IXXX)=0.00000
    60 CONTINUE
 С
       DO
             70 \text{ IS}=1,150
         NTL(IS)=0
             70 IXXX=1,120
         DO
           TQPA(IS,IXXX)=0
           TPA(IS, IXXX)=0.00000
    70 CONTINUE
 C
             80 IL=1,120
          ILINO(IL)=IL
    80 CONTINUE
 C
              90 IXXX1=1,150
          IXREF(IXXX1)=IXXX1
          ISXREF(IXXX1)=IXXX1
     90 CONTINUE
```